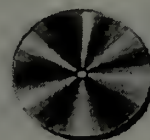


Kindergarten to Grade 9 Mathematics Resources



Annotated Bibliography

(includes resources approved in 1996 and 1997)



Alberta
EDUCATION

Curriculum Standards Branch

1997



EX LIBRIS
UNIVERSITATIS
ALBERTENSIS

FEEDBACK - K-9 MATHEMATICS (1997)

Please complete the following:

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_____ School administrator (please indicate level) _____ Div. 1 _____ Div. 2 _____ Div. 3
_____ System administrator
_____ Other (please specify) _____

1. I found this document:
_____ extremely useful
_____ useful
_____ somewhat useful
_____ not very useful

2. What could be added to make this document more helpful?

3. Other comments and suggestions:

Thank you for your feedback.
Please send your response to:

**Learning Resources Unit
Curriculum Standards Branch
Alberta Education
11160 Jasper Avenue NW
Edmonton AB T5K 0L2
FAX: 403-422-0576**

Alberta
Kindergarten to Grade 9
Mathematics Resources

Annotated Bibliography

(includes resources approved in 1996 and 1997)

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ALBERTA EDUCATION CATALOGUING IN PUBLICATION DATA

Alberta. Alberta Education. Curriculum Standards Branch.

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Available on Internet, URL: <http://ednet.edc.gov.ab.ca>

(Includes resources approved in 1996 and 1997.)

ISBN 0-7732-5263-0

1. Mathematics – Study and teaching - Alberta - Bibliography. I. Title.

QA14.C22A3.A333 1997

372.7

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TABLE OF CONTENTS

Introduction.....	i
Kindergarten.....	Kindergarten - Page 1
Grade 1	Grade 1 - Page 1
Grade 2	Grade 2 - Page 1
Grade 3	Grade 3 - Page 1
Grade 4	Grade 4 - Page 1
Grade 5	Grade 5 - Page 1
Grade 6	Grade 6 - Page 1
Grade 7	Grade 7 - Page 1
Grade 8	Grade 8 - Page 1
Grade 9	Grade 9 - Page 1
Authorized Resources Under Review.....	Page 1
Title Listing	Title Listing - Page 1

INTRODUCTION

Foreword

This annotated bibliography identifies the English language resources endorsed by all Western Canadian Protocol jurisdictions implementing *The Common Curriculum Framework for K–9 Mathematics* and authorized Alberta resources that are not listed in earlier annotated bibliographies.

The Western Canadian Protocol for Collaboration in Basic Education (WCP) - Kindergarten to Grade 12 was signed in December 1993 by the Ministers of Education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory, and the Northwest Territories. *The Common Curriculum Framework for K–9 Mathematics* was released by these governments in June 1995. Alberta plans to implement the general and specific outcomes of *The Common Curriculum Framework for K–9 Mathematics* for grades 7 and 9 in September 1996 and for Kindergarten to Grade 6 and Grade 8 in September 1997.

The WCP resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of *The Common Curriculum Framework for K–9 Mathematics*. These resources have undergone an intensive review and were found to be the most suitable of those submitted. All of the WCP resources have been authorized for use in Alberta and include the WCP logo.

In addition, this annotated bibliography includes some resources authorized for Kindergarten to Grade 9 in Alberta. These resources have been evaluated in Alberta and not by the WCP evaluation process. These resources do NOT include the WCP logo.

Learning resources for Kindergarten to Grade 6 that were listed in the Elementary Mathematics Authorized Resources Annotated List (1995) have not been repeated in this annotated bibliography. Listings of elementary learning resources authorized since publishing the 1995 Elementary Mathematics List and all resources authorized for Grade 7 to Grade 9 are included in this bibliography in the section “Authorized Resources Under Review”. Both the 1995 Elementary Mathematics List and this bibliography are required for a complete listing of authorized resources for Kindergarten to Grade 9.

A complete listing of all authorized learning resources is also available on the Education in Alberta web site (<http://ednet.edc.gov.ab.ca>) in the Students and Learning section.

Organization

The resources in this bibliography are organized by grade, authorization status and then alphabetically by title. Resources that are suitable at more than one grade appear for each of the applicable grades, thus providing a comprehensive listing of materials at each grade.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs, this information is included in the *Audience* section of the annotation.

A listing of older Alberta authorizations is included at the end of the bibliography. These resources will be reviewed to determine their fidelity with the Program of Studies.

An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource.

Note: In the annotations, “Protocol framework” is used to refer to the document *The Common Curriculum Framework for K–9 Mathematics*.

Pricing Information

The prices appearing in this document are estimated prices for schools and should be used as a guideline for purchase planning. The estimated prices for WCP resources are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources in jurisdictions with book bureaus will be dependent upon provincial negotiations, cost recovery requirements and the inclusion of shipping and handling charges. For confirmation of prices, please contact the LRDC directly by phone (403-427-2767 or within Alberta, dial 310-0000 to be connected to a toll free operator), by fax (403-422-9750), or on Internet (<http://ednet.edc.gov.ab.ca/lrdc>).

For video resources, special video licensing arrangements may be negotiated with appropriate video distributors. Contact ACCESS – The Education Station for pricing.

Authorization Status

All learning resources included in this annotated bibliography have been authorized as either basic, support or authorized teaching resources.

WCP Resource Information

All WCP learning resources included in this annotated bibliography have been designated as “key” resources for *The Common Curriculum Framework for K–9 Mathematics* and include the WCP icon. The WCP resources include information on the Mathematical Processes, Strand/Substrand curriculum coverage and the following categorizations.

- *Breadth* indicates learning resources with the highest possible level of fidelity with the Protocol framework for a particular grade.
- *Depth* indicates learning resources that address only a subset of the outcomes with a high level of fidelity, but provide an

especially effective learning experience for students.

- *Breadth and Depth* indicates comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular grade.
- *Teacher* indicates resources that assist teachers in the implementation of the Protocol framework.

Criteria For Selection of Learning and Teaching Resources

Resources in this annotated bibliography were selected according to the following criteria:

- *Content and Curriculum Fit* includes how effectively a learning resource supports any given learning outcome and meets students’ needs.
- *Instructional Design* includes the organization and presentation techniques, the methods used to introduce, develop and summarize concepts, the vocabulary level of a resource, the suitability to student learning styles, or to special audiences.
- *Technical Design* includes binding, type of print, quality of illustrations, durability, format when making learning resource selections. For multimedia resources, factors such as pacing, quality of pictures/sound, user friendliness, use of special features for emphasis, interactivity are considered.
- *Social Considerations/Tolerance and Understanding* includes screening for tolerance and social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local

community. Information on a resource may be obtained from the descriptive information in this list, from the supplier, published reviews or colleagues and from an examination of the resource.

Acknowledgments

Alberta would like to thank those involved in the review and selection process to identify the best mathematics student and teacher resources for the Kindergarten to Grade 9 framework. In 1996, 53 teachers were selected by the participating jurisdictions in western Canada to review approximately 2500 items received in response to an invitation to publishers, producers and distributors for resource submissions. In 1997, the second phase of the learning resources initiative, 45 teachers were selected by their jurisdictions to review another 1100 items.

Appreciation is also extended to all the school systems from the WCP jurisdictions who supported teachers participating in the review process.

Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for *The Common Curriculum Framework for K–9 Mathematics*.

SAMPLE ANNOTATION

Authorization Status	Title and Series	Annotation	Comments																																													
	GRADE 2 - LEARNING AND TEACHING RESOURCES	<p>Annotation: These booklets provide hands-on activities, using geoboards, pattern blocks and tangrams, that cover some outcomes from the Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities, extensions, investigations, teacher notes and sample solutions are included.</p> <p>Comments: • The manipulatives are not included with the booklets. • These resources are useful as supplementary materials.</p> <p>Cautions: • Pattern blocks are limited.</p>																																														
<p>Math Discoveries: Grades 2-3</p> <p>NEW Math Discoveries with Geoboards: Grades 2-3 NEW Math Discoveries with Pattern Blocks: Grades 2-3 NEW Math Discoveries with Tangrams: Grades 2-3</p> <p>Support Resource</p> <p>Physical Characteristics: • Geoboards - 49 pages, softcover • Pattern Blocks - 49 pages, softcover • Tangrams - 49 pages, softcover</p> <p>WCP Category: Depth Resource</p> <p>Author(s): Goodnow, J. (Geoboards) Goodnow, J. (Pattern Blocks) Hoogetoom, S. (Tangrams)</p> <p>Grade Level(s):</p> <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>K</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td></td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>Strand/Substrand:</p> <table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Number</th> <th colspan="2">Patterns and Relations</th> <th colspan="3">Shape and Space</th> <th colspan="2">Statistics and Probability</th> </tr> <tr> <th>Number Concepts</th> <th>Number Operations</th> <th>Patterns</th> <th>Variables and Equations</th> <th>Relations and Functions</th> <th>Measurement</th> <th>3-D Objects and 2-D Shapes</th> <th>Transformations</th> <th>Statistics and Probability</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>✓</td> <td></td> <td></td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> </tbody> </table> <p>Publisher: Ideal School Supply Company Distributor: Addison-Wesley Publishers 26 Prince Andrew Place P.O. Box 580 DON MILLS ON M3C 2T8 (416) 447-5101 Phone: Fax: (800) 465-0536 ; (416) 443-0948</p> <p>Copyright: 1994 1994 1994</p> <p>ISBN: 1564510778 1564510743 1564510751</p> <p>Math Discoveries with Geoboards: Grades 2-3 Math Discoveries with Pattern Blocks: Grades 2-3 Math Discoveries with Tangrams: Grades 2-3</p> <p>Est. Price(s): \$11.60 \$11.60 \$11.60</p>	K	1	2	3	4	5	6	7	8	9			✓	✓							Number		Patterns and Relations		Shape and Space			Statistics and Probability		Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Statistics and Probability			✓			✓	✓	✓		<p>Audience: General</p> <p>Format:</p>
K	1	2	3	4	5	6	7	8	9																																							
		✓	✓																																													
Number		Patterns and Relations		Shape and Space			Statistics and Probability																																									
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Statistics and Probability																																								
		✓			✓	✓	✓																																									
New Item	Grade Level Grid	Strand/Substrand Grid	Mathematical Processes Grid																																													

- *Authorization Status:* indicates the status of the resource as, basic, support or authorized teaching.
- *Title and Series:* series names are indicated by italics.
- *Annotation:* provide an overview of the resource.
- *Comments:* provide additional information about the resource.
- *Cautions:* alert teachers to potentially sensitive issues/community concerns, or comments about curriculum fit.
- *Audience:*
 - General: the majority of students
 - LD: students who have difficulty in processing and understanding spoken, written or visual information
 - ESL: students who are learning English as a second language
- *New Item:* identifies what is new for 1997. It may be a new resource or a new component of a previously approved series.
- *Grade Level Grid:* indicates the suitable grade range of the learning resource.

- *Format:* is represented by an icon, such as:



Print



Software



Audiocassette



CD-ROM



Videocassette



Kit

- *Strand/Substrand Grid:* allows teachers to see readily the fit between the Protocol framework at a given grade level and those outcomes covered in the learning resource.
- *Mathematical Processes Grid:* indicates those processes students will use when working through the activities provided in the learning resource.



Interactions (Level K)

- Teacher's Resource Binder (includes Blackline Masters)
- Math Literature Pack

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Teacher's Resource Binder - Blackline Masters, 45 pages, softcover, Program Information Booklet, 64 pages, softcover, Investigation and Developmental Units - 308 pages divided into 19 separate units; Mathematics and Children's Literature - 32 pages
- Math Literature Pack - One big book, seven read together books, 14 small books - 8 pages each, two audiocassettes



Author(s):

Hope, J.; Small, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1994 0770223052

1994 999990131X

Components:

- Teacher's Resource Binder (includes Blackline Masters)
- Math Literature Pack

Est. WCP Price(s):

\$102.47

\$208.00

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem-solvers and develop positive attitudes toward mathematics. Problem solving is the central focus of this program, and a concept-, language-, and activity-based approach is used. Connections are made with other curriculum areas, and assessment and evaluation are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level.

• Teacher's Resource Binder

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet; five developmental and 14 investigation units; a mathematics and children's literature booklet; and a blackline masters book.

• Blackline Masters

This book includes home letters, general-use masters, assessment masters, specific-use masters and planning masters.

• Math Literature Pack

This literature component consists of one big book, seven read-together books, 14 small books and two audiocassettes. It provides a real-world context for developing mathematical concepts.

Cautions:

- In the Math Literature Pack, one story relates to a wizard and magic.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics (Level K)

- Teacher's Guide and Journal
- Math Workouts: 5-Minute Experiences for Staying Fit in Math
- Poster Package
- Assessment Masters
- Activity Masters
- Family Masters
- Problem of the Week: Transparencies and Answer Key
- Review and Practice Book: On Your Own (Student Edition; Teacher's Edition with Answers)
- Class Journal
- Professional Handbook (Revised Ed.)

NEW

Authorization Status:

Basic

NEW

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Teacher's Guide and Journal - 352 pages, coilbound
- Math Workouts - 40 pages, softcover
- Poster Package - 16 posters
- Assessment Masters - 37 pages, softcover
- Activity Masters - 54 pages, softcover
- Family Masters - 76 pages, softcover
- Problem of the Week - 15 transparencies, one answer key
- Review and Practice Book (Student Edition; Teacher's Edition) - 149 pages, softcover each
- Class Journal - Big Book, 46 pages, softcover, six big class recording sheets
- Professional Handbook - 96 pages, softcover



Author(s):

Wortzman, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eight units built around key mathematical ideas with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts covered at each grade level. Technology suggestions are included.

• Teacher's Guide and Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning.

• Math Workouts

A booklet of 5-minute experiences to help students "stay fit" in mathematics by reviewing concepts and procedures.

• Poster Package

Each poster in this collection poses a question that may be used to launch a unit of study, reinforce a unit, motivate students and provide a link to the real world.

• Assessment Masters

This set includes individual performance assessment checklists, individual student assessments, class and small group observation records and observation records for free play and exploration centres.

• Activity Masters

This set contains two types of masters: generic masters, such as grid paper, number cards, dot paper and sorting mats; and, specific masters intended for individual activities. These activity-specific masters may provide a manipulative, a graphic organizer or a recording device for a particular activity.

• Family Masters

These masters are intended to facilitate communication with students' families and include introduction letters for the program and units, blank stationery and family connections to suggest homework projects. Introduction letters are translated into Spanish, Vietnamese, Cantonese, Cambodian and French.

• Problem of the Week: Transparencies and Answer Key

Fifteen problems are presented on overhead transparencies, along with a set of problem stories and answers for the teacher. The problems of the week may be used at any time during the program.

• Review and Practice Book—On Your Own (Student Edition)

These reproducible pages provide students with opportunities to review and practise concepts and skills. There are two kinds of pages: review pages for mathematics that students have explored and investigated in previous units; and practice pages for mathematics that students are currently exploring and investigating. A skills bank section at the end of the book may be used at any time.

• Review and Practice Book—On Your Own (Teacher's Edition with Answers)

This book replicates the student book with answers provided on every page. Also included is an index of skills.

• Class Journal

This consumable big book may be used throughout the year to record and display student observations, responses and questions. Also included are laminated class recording sheets.

• Professional Handbook

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Continued

Publisher: Addison-Wesley
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:		Components:	Est. WCP Price(s):
1995	0201828545	• Teacher's Guide and Journal	\$120.05
1995	0201837900	• Math Workouts: 5-Minute Experiences for Staying Fit in Math	\$22.63
1995	0201837803	• Poster Package	\$65.45
1995	0201828561	• Assessment Masters	\$32.70
1995	0201828553	• Activity Masters	\$27.24
1995	020182857X	• Family Masters	\$38.10
1995	0201836513	• Problem of the Week: Transparencies and Answer Key	\$54.54
1995	0201839806 (Set)	• Review and Practice Book: On Your Own (Student Edition; Teacher's Edition with Answers)	\$56.65 (Set)
1995	0201837838	• Class Journal	\$32.70
1997	0201696010	• Professional Handbook (Revised Ed.)	\$19.95

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Architek (English Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

18 blocks of various geometric shapes, 90 cards with 120 problems divided into five categories, one model-card and a complete instruction booklet with answers



Author(s):

Lyons, M.; Lyons, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This game, designed to develop motor, perception and intellectual skills in primary grade students, consists of 18 blocks of various geometric shapes and a set of problem cards. By using the blocks and cards to solve problems, students recognize and name solids, and explore the concepts of angles, proportion, similarity and force. The set of 120 problems, divided into five categories, provides for varying levels of difficulty and multiple solutions. The main focus is on the Shape and Space strand (3-D Objects and Transformations) and, to a lesser degree, the Patterns and Relations strand.

Audience: General / ESL / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓				✓	✓		

Publisher: Mondia

Distributor: Mondia, Éditeurs
1977, boulevard Industriel
LAVAL QC H7S 1P6

Phone: (514) 667-9221

Fax: (514) 667-8658

Copyright: ISBN:

1993 289114533X

Architek (English Version)

Est. WCP P

\$36.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

The Graph Club

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Two 3.5" discs, Teacher's Guide, 99 pages, binder
- Windows Version: Three 3.5" discs, Teacher's Guide, 99 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Annotation:

This resource is designed to help students read and interpret graphs, use graphs to communicate information, answer questions and solve problems. It assists students in making the transition from graphing with manipulatives to graphing in the abstract and helps them understand the relationship between different representations of the same data. Problem solving, cooperative learning and cross curricular integration are encouraged. Classroom tips and activities, sample graphs and blackline masters are included.

Comments:

- A variety of levels and abilities are addressed within this resource.

System Requirements:

- Macintosh: Macintosh Classic, System 7.0 or later, 4 MB RAM. It runs slowly on Macintosh Plus with System 6.07 and 1 MB RAM.
- Windows 3.1: 386/33 MHz, 4 MB RAM, sound card, VGA monitor, mouse.
- Windows 95: 486/50 MHz, 4 MB RAM, sound card, VGA monitor, mouse.

Cautions:

- There is no sort command to allow for changing display format and automatic sorting of data.
- See the teacher manual for unusual commands needed to open the Teacher Options.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Publisher: Tom Snyder Productions Inc.

Distributor: Tom Snyder Productions Inc.
80 Coolidge Hill Road
WATERTOWN MA 02172-2817

Phone: (617) 926-6000 ext. 246

Fax: (617) 926-6222

Copyright:

1995

1996

Components:

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Est. WCP Price(s):

\$99.95 US\$

\$99.95 US\$

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades K-1

- Math Discoveries with Geoboards: Grades K-1
- Math Discoveries with Pattern Blocks: Grades K-1
- Math Discoveries with Tangrams: Grades K-1

Annotation:

These booklets provide hands-on activities, using geoboards, pattern blocks and tangrams, that cover some outcomes from the Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities, extensions, investigations, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary materials.

Audience: General

Authorization Status:

Support

WCP Category:
Depth Resource

Physical Characteristics:

- Geoboards - 49 pages, softcover
- Pattern Blocks - 49 pages, softcover
- Tangrams - 49 pages, softcover



Author(s):

Goodnow, J. (Tangrams)
Hoogeboom, S. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1994 1564510867

1994 1564510883

1994 1564510891

Components:

- Math Discoveries with Geoboards: Grades K-1
- Math Discoveries with Pattern Blocks: Grades K-1
- Math Discoveries with Tangrams: Grades K-1

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Measure It! Grades K to 3 (Ages 5-8)

Active Learning

Authorization Status:

Support

WCP Category:
Depth Resource

Physical Characteristics:
148 pages, binder

Author(s):
Cross, M; Connelly, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Measure It! Grades K to 3 (Ages 5-8)

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described.

Comments:

- Activities dealing with mL, m², and cm³ should be used in Grade 4.
- Kindergarten: No activities for positional language or money are included.
- Grades 1 and 2: There are few activities for time, temperature and money.
- Grade 3: The length units kilometre and decimetre are not included. There are no activities for time, temperature and money

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓



NEW Tick Tock: All About the Clock

Authorization Status:

Support

WCP Category:
Depth Resource

Physical Characteristics:
One 16-minute videocassette

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Omega Films

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1992

Tick Tock: All About the Clock

Est. WCP Price(s):

\$126.00

\$1071.00 (10 Copies)

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Bums, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier: LPS

Phone: (403) 427-1111

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

LRDC

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 1-3

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Annotation:

This set of teacher resources focuses on counting, number combinations and patterns. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Counting - 104 pages, coilbound
- Number Combinations - 102 pages, coilbound
- Patterns - 104 pages, coilbound.



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078050

1995 1561078069

1995 1561078077

Components:

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1989 0873532732

Est. WCP Price(s):

\$35.80

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Curriculum and Evaluation Standards for School Mathematics

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics: Kindergarten Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

24 pages, softcover



Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533100

Est. WCP Price(s):

\$13.60

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Curriculum and Evaluation Standards for School Mathematics: Kindergarten Book

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Developing Number Concepts Using Unifix®Cubes

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

218 pages plus 79 worksheets, softcover

Author(s):

Richardson, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource provides ideas for exploring and investigating mathematical concepts ranging from beginning counting to the introduction of multiplication and division. A variety of independent activities and teacher-directed activities for small groups will help teachers make effective use of the cubes when teaching number concepts. Emphasis is placed on students learning concepts, first using real objects, and then on making the connections with mathematical symbols. The resource focuses on number concepts and number operations, and to a lesser degree, shapes, data analysis and probability.

Audience: General / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1984 0201061171

Developing Number Concepts Using
Unifix®Cubes

Est. WCP Price(s):

\$31.48

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Primary)

- Just for Pattern Blocks (Primary)
- Just for Teddy Bear Counters (Primary)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Pattern Blocks - 43 pages, softcover
- Teddy Bear Counters - 42 pages, softcover



Author(s):

O'Donnell, C. (Pattern Blocks)
Reak, C. (Teddy Bear Counters)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Annotation:

These resources focus on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzlers and games, using pattern blocks and teddy bear counters, are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted to fit different student abilities and interests. Blackline masters are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561078956
1996 1561078972

Components:

- Just for Pattern Blocks (Primary)
- Just for Teddy Bear Counters (Primary)

Est. WCP Price(s):

\$13.15
\$13.15

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

• Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



M-3 Mathematics: Mapping Mathematical Meaning

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Annotation:

- 'Oh No, Maths!' *Developing Confidence in Mathematics*

This resource describes one teacher's strategies for developing a child-centred, activity-based mathematics program in the primary classroom. The teaching and learning emphasis is on the personal experience each student has with mathematical ideas. Problems and practical solutions are discussed in the areas of assessment and evaluation, record keeping by students and teachers, and parent-teacher communication. Samples of planning and evaluation records, anecdotal records and student work are included.

- *Mathematics: How to Assess and Report*

This resource provides teachers with practical advice on assessing students' mathematical progress. Areas discussed include changing ideas on assessment, methods of assessment, diagnosing results and reporting to parents. Samples of student work, anecdotal records and ways of recording student progress are included.

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- 'Oh No, Maths!' Developing Confidence in Mathematics - 64 pages, softcover
- Mathematics: How to Assess and Report - 47 pages, softcover



Author(s):

Murphy, F. ('Oh No, Maths!')
Jordan, M. (Mathematics: How to Assess and Report)

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Ashton Scholastic

Distributor: Scholastic-TAB Publications Ltd.
123 Newkirk Road
RICHMOND HILL ON L4C 3G5

Phone: (800) 268-3848

Fax: (800) 268-4944

Copyright: ISBN:

1991 0868968080

1993 086896834X

Components:

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Est. WCP Price(s):

\$12.50

\$12.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math and Literature

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book One - 73 pages, softcover
- Book Two - 134 pages, softcover



Author(s):

Burns, M. (Book One)
Sheffield, S. (Book Two)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

These teacher guides present a number of strategies and lessons for linking the teaching of mathematics with children's literature and writing. The lessons model problem-solving investigations that can be initiated through the use of books and are based on classroom-tested ideas. Samples of student work, assessment examples and a bibliography are included. The lessons correspond to a broad range of learning outcomes. While the grade level at which sample lessons were taught is indicated, teachers can decide on the appropriateness of each lesson for the level of their students.

• Math and Literature (K-3): Book One

This resource has 10 detailed lessons, each based on a specific book, and a list of 21 additional books valuable for mathematics lessons, with instructional ideas for each.

• Math and Literature (K-3): Book Two

This resource has 21 detailed, literature-based lessons and an index of mathematical outcomes.

Cautions:

- Children's books selected for use in these teacher guides were not reviewed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355071
1995 094135511X

Components:

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Est. WCP Price(s):

\$14.78
\$14.78

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



**Math Excursions K:
Project-Based Mathematics for
Kindergartners (Revised Ed.)**
Math Excursions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

266 pages, coilbound

Author(s):

Burk, D.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Annotation:

This teacher resource is a set of five integrated, theme-based units. Each unit revolves around a story in which the main character's dilemma serves as a springboard for problem solving and teaching a variety of mathematical concepts. The units integrate literacy skills, mathematics, art, science and social studies to create meaningful experiences for students. The activities are open-ended and use manipulatives. The resource includes classroom management techniques and clear and detailed unit plans that follow a common format. Blackline masters, a scope and sequence chart and suggestions for assessment are provided.

Cautions:

- There are references to Imperial Measure and American money.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Heinemann

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (800) 387-0172

Fax: (416) 445-5967

Copyright: ISBN:

1993 0435083457

Math Excursions K: Project-Based
Mathematics for Kindergartners (Revised Ed.)

Est. WCP Price(s):

\$50.80

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics in the Making: Authoring Ideas in Primary Classrooms

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

197 pages, softcover

Author(s):

Mills, H.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource describes how teachers can help children use personal stories to demonstrate their mathematical thinking. Based on classroom experiences, the writers draw comparisons to the authoring cycle used in language arts by describing primary children who revise, collaborate and make personal connections to mathematical situations. Practical suggestions for projects and activities are supported by examples of children's writing and drawing, and appropriate evaluation strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435071009

Mathematics in the Making: Authoring Ideas in Primary Classrooms

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in
the World

Est. WCP Price(s):

\$36.20

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Reusable Classroom Graphing Kit

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Two 22" x 28" laminated graphs, Graphing Primer with Blackline Masters, 92 pages, softcover, velcro stickies



Author(s):

Choate, L.D.; Okey, J.A.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Annotation:

This resource consists of two laminated, reusable classroom grids and a practical introduction to graphing techniques. Students develop such skills as sorting, classifying, identifying similarities and differences as they gather and organize information, make comparisons and draw conclusions. Group and individual graphing experiences are described. Group graphing includes class and school graphs and group surveys. Individual graphing includes sorting materials, counting and graphing items and using different ways to gather data. Individual graphing experiences require more independent application by students. The description of each particular graphing technique is followed by blackline masters for using that technique.

Audience: General / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Lakeshore Learning Materials

Distributor: Wintergreen Communications
14 Conner Cres., # 10
CONCORD ON L4K 2W8

Phone: (800) 268-1268

Fax: (800) 567-8084

Copyright:

1993

Reusable Classroom Graphing Kit

Est. WCP Price(s):

\$22.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and Guide)

Est. WCP Price:
\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 1)

- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters
- Activity Cards
- See What I Can Do Booklets (8 titles)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Teacher's Resource Binder - Blackline Masters, 108 pages, softcover; Program Information Booklet - 64 pages, softcover; Investigation and Developmental Units - 308 pages divided into 13 separate units; Mathematics and Children's Literature - 32 pages
- Practise on Your Own Masters - 75 pages, softcover
- Activity cards - 44 laminated cards in case
- See What I Can Do books, eight titles - 8 pages each



Author(s):

Small, M.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem-solvers and develop positive attitudes toward mathematics. Problem solving is the central focus of this program, and a concept-, language-, and activity-based approach is used. Connections are made with other curriculum areas, and assessment and evaluation are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level.

• Teacher's Resource Binder

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet; eight developmental and five investigation units; a mathematics and children's literature booklet; and a blackline masters book.

• Blackline Masters

This book includes home letters, general-use masters, assessment masters and specific-use masters.

• Practise on Your Own Masters

These blackline masters can be used to supplement the practice activities for the eight developmental units. They are intended for those students who would benefit from additional, independent practice.

• Activity Cards

Activity cards provide teaching/learning activities to develop and consolidate mathematics learnings through independent, pair or group activities. The cards are referenced to the appropriate teaching units.

• See What I Can Do Booklets

This set of eight consumable booklets, one for each developmental unit, supports communication about learning to teachers, peers and parents and can serve as an evaluation component. Each booklet contains activities, games, problem solving, cumulative practice and a Thinking Back page.

Comments:

- The resource shows number words and links these to number symbols. It often gives a choice of representing numbers by number words or number symbols, and yet includes activities that require the writing of number words.
- Addition and subtraction are generally explored to 12, rather than 18, using a variety of manipulatives, pictures and symbols. The most common manipulatives and contexts used for larger numbers (up to 20) are coins to 20 cents for making purchases.

Cautions:

- The special role of zero in addition is only mentioned in passing in the later parts of the resource, and is taken for granted whenever addition and subtraction of two-digit numbers is done later in the series.
- Measurement contexts are restricted in variety.
- There is an inappropriate equating of mass with bigness, ignoring objects that are large in volume or area, but light in mass.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1995 0770223125

1993 077022489X

0770223117

1994 0770223427

Components:

- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters
- Activity Cards
- See What I Can Do Booklets (8 titles)

Est. WCP Price(s):

\$108.11

\$27.49

\$34.72

\$10.95

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/Irdc>



Mathworks

- Mathworks: Book A (Teacher Resource Book)
- Mathworks: Book A: Blackline Masters
- Mathworks: Book A: Gameboards

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Book A (Teacher Resource Book) - 416 pages, coilbound
- Book A: Blackline Masters - approximately 150 pages, loose
- Gameboards - two gameboards, instruction sheets

Author(s):

Kelleher, H.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Houghton Mifflin

Distributor: Nelson Canada
1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (800) 268-2222

Fax: (800) 430-4445

Copyright: ISBN:

1992 0395587913

1992 0395587433

0395587417

Components:

• Mathworks: Book A (Teacher Resource Book)

• Mathworks: Book A: Blackline Masters

• Mathworks: Book A: Gameboards

Est. WCP Price(s):

\$228.95

\$46.80

\$50.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This activity-based mathematics program builds on the student's world of experience and interests. It focuses on mathematical thinking, reasoning and problem solving, and provides for ongoing assessment and evaluation to support diagnostic teaching. The program has a teacher's resource book, blackline masters and gameboards. The program consists of three strands: Number Content (numeration and operations)—this is developed sequentially and is the framework of the program; Spatial Content—this is interspersed with the number content sequence; Data Analysis and Problem Solving—this is integrated into the main teaching sequence. The topics in the nine units are organized around themes. Each lesson has All Together activities (teacher-led), By Themselves activities (independent or small group work) and Meanwhile activities (evaluation, reinforcement and extension).

Teacher Resource Book

Provides a step by step plan for implementing an activity-oriented, integrated program.

Blackline Masters

Include general-use masters, assessment masters, student record masters and parent letters.

Gameboards

Provide colourful, larger versions of the cooperative gameboards included in the blackline masters.

Comments:

- There is extraneous material on telling time.

Cautions:

- The development of the following outcomes needs to be supplemented:
 - addition and subtraction concepts to 18. The resource covers addition and subtraction to 12
 - concepts on temperature using the senses
 - concepts on describing relative position of 3-D objects and 2-D shapes
 - concepts on exploring and describing reflection in a mirror
 - vocabulary describing statistics and probability (ie. never, sometimes, always).

Audience: General / Gifted / ID (Mild)

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓



Quest 2000: Exploring Mathematics (Grade 1)

- Student Book (Revised Ed.)
- Teacher's Guide and Journal (Revised Ed.)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 103 pages, softcover
- Teacher's Guide and Journal - 464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition) - 210 pages, softcover each
- Teacher Support Package - 160 pages, softcover
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover

Author(s):

Wortzman, R.; et al.

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations. Students can record their feelings, thinking and understandings. Family notes suggest home activities to extend or reinforce learning.

• Teacher's Guide and Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology exploration centres that use commercial software.

• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook (Revised Ed.)

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator.
- Many key ideas are included by implication rather than by explicit statement.
- Addition and subtraction are explored to 12, rather than 18, using general manipulatives, pictures and symbols. The only manipulatives and contexts used for numbers up to 20 are coins to 20 cents for making purchases.
- The resource shows number words and links these to number symbols, but always gives a choice of representing numbers by number words or number symbols. It does not, therefore, include any activities that require the writing of number words.
- A glossary is included in the professional handbook, not the teacher's edition.

Cautions:

- The special role of zero in addition is not addressed and is taken for granted whenever addition and subtraction of 2-digit numbers is done later in the series.
- Measurement contexts are restricted in variety.
- Images of coins on the blackline masters are of poor quality.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1995 0201552612
1995 0201552604
1997 020165668X (Set)

1997 020155262X
1997 0201696029
1997 0201696010

Components:

• Student Book (Revised Ed.)
• Teacher's Guide and Journal (Revised Ed.)
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
• Teacher Support Package
• Problem of the Week
• Professional Handbook (Revised Ed.)

Est. WCP Price(s):

\$10.50
\$105.95
\$39.95 (Set)

\$39.95
\$39.95
\$19.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Architek (English Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

18 blocks of various geometric shapes, 90 cards with 120 problems divided into five categories, one model-card and a complete instruction booklet with answers



Author(s):

Lyons, M.; Lyons, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓				✓	✓		

Publisher: Mondia

Distributor: Mondia, Éditeurs
1977, boulevard Industriel
LAVAL QC H7S 1P6

Phone: (514) 667-9221

Fax: (514) 667-8658

Copyright: ISBN:

1993 289114533X

Architek (English Version)

Est. WCP Price(s):

\$36.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Be SMART: Sorting, Matching,
Arranging, Recognizing, Thinking
Skills: Manipulative Activity
Resource: For Levels 1 to 3
Thinking in Action

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

285 pages, binder

Author(s):

Aggus, M.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource contains a sequenced set of blackline master activity sheets that help students develop the skills of observation, classification, seriation and correspondence. The activities are grouped in themes: Buttons; Blocks; Creatures Large and Small; Wheels, Wings and Waves. Students use a variety of manipulative materials to solve problems. Activity sheets may be used by individual students or in small group situations. Evaluation and recording charts are provided. The main focus of this resource is on the Patterns and Relations strand.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1990

Be SMART: Sorting, Matching, Arranging,
Recognizing, Thinking Skills: Manipulative
Activity Resource: For Levels 1 to 3

Est. WCP Price(s):

\$29.66

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

The Graph Club

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Two 3.5" discs, Teacher's Guide, 99 pages, binder
- Windows Version: Three 3.5" discs, Teacher's Guide, 99 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Tom Snyder Productions Inc.

Distributor: Tom Snyder Productions Inc.
80 Coolidge Hill Road
WATERTOWN MA 02172-2817

Phone: (617) 926-6000 ext. 246

Fax: (617) 926-6222

Copyright:

1995

1996

Components:

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Est. WCP Price(s):

\$99.95 US\$

\$99.95 US\$

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource is designed to help students read and interpret graphs, use graphs to communicate information, answer questions and solve problems. It assists students in making the transition from graphing with manipulatives to graphing in the abstract and helps them understand the relationship between different representations of the same data. Problem solving, cooperative learning and cross curricular integration are encouraged. Classroom tips and activities, sample graphs and blackline masters are included.

Comments:

- A variety of levels and abilities are addressed within this resource.

System Requirements:

- Macintosh: Macintosh Classic, System 7.0 or later, 4 MB RAM. It runs slowly on Macintosh Plus with System 6.07 and 1 MB RAM.
- Windows 3.1: 386/33 MHz, 4 MB RAM, sound card, VGA monitor, mouse.
- Windows 95: 486/50 MHz, 4 MB RAM, sound card, VGA monitor, mouse.

Cautions:

- There is no sort command to allow for changing display format and automatic sorting of data.
- See the teacher manual for unusual commands needed to open the Teacher Options.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓



Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

193 pages, binder

Author(s):

Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1993

Kids 'n' Calculators: How to Use the Calculator
 as a Teaching Tool: Grades K-6 (Ages 5-11)

Est. WCP Price(s):

\$31.46

Supplier:

Phone: (403) 427-5711

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Math Discoveries: Grades K-1

- Math Discoveries with Geoboards: Grades K-1
- Math Discoveries with Pattern Blocks: Grades K-1
- Math Discoveries with Tangrams: Grades K-1

Annotation:

These booklets provide hands-on activities, using geoboards, pattern blocks and tangrams, that cover some outcomes from the Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities, extensions, investigations, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary materials.

Audience: General

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Geoboards - 49 pages, softcover
- Pattern Blocks - 49 pages, softcover
- Tangrams - 49 pages, softcover

Author(s):

Goodnow, J. (Tangrams)
Hoozeboom, S. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1994 1564510867

1994 1564510883

1994 1564510891

Components:

- Math Discoveries with Geoboards: Grades K-1
- Math Discoveries with Pattern Blocks: Grades K-1
- Math Discoveries with Tangrams: Grades K-1

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 1-3

- Math Discoveries with Attribute Blocks: Grades 1-3
- Math Discoveries with Base Ten Blocks: Grades 1-3
- Math Discoveries with Pentominoes: Grades 1-3

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Attribute Blocks - 49 pages, softcover
- Base Ten Blocks - 49 pages, softcover
- Pentominoes - 49 pages, softcover



Author(s):

Goodnow, J. (Attribute Blocks; Base Ten Blocks)
Roper, A. (Pentominoes)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

These booklets provide hands-on activities, using attribute blocks, base ten blocks and pentominoes, that cover some outcomes from the Number, Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities and investigations, extensions, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary resources.

Cautions:

- The reading level in *Attribute Blocks* and *Base Ten Blocks* may be too difficult for some students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1995 156451076X

1994 1564510786

1995 1564501650

Components:

• Math Discoveries with Attribute Blocks: Grades 1-3

• Math Discoveries with Base Ten Blocks: Grades 1-3

• Math Discoveries with Pentominoes: Grades 1-3

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Measure It! Grades K to 3 (Ages 5-8)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

Cross, M; Connelly, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Measure It! Grades K to 3 (Ages 5-8)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described.

Comments:

- Activities dealing with mL, m², and cm³ should be used in Grade 4.
- Kindergarten: No activities for positional language or money are included.
- Grades 1 and 2: There are few activities for time, temperature and money.
- Grade 3: The length units kilometre and decimetre are not included. There are no activities for time, temperature and money.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:

1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User License)
\$272.00 (Lab 10-Person License)
\$408.00 (Network/Server License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 1-3 (Ages 6-8)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

138 pages, binder

Author(s):

Hulland, J; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource comprises a sequenced set of problem-solving activities that use a variety of hands-on materials, with a focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasised and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

- Appropriate activities need to be selected for specific grade levels. Grade 1 to Grade 3 learner outcomes for number concepts, and Grade 2 and Grade 3 learner outcomes for number operations are addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

101 Winning Ways with Base 10: Activities for
Grades 1-3 (Ages 6-8)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Show & Tell Geoboard Collection: Grades 2-4 (Ages 7-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

D'Angela, J.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓					

Annotation:

This resource focuses on hands-on activities using geoboards and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. It includes project work, group and individual assignments and an emphasis on integrating language and mathematics. Teacher notes, blackline master activity sheets and evaluation techniques are provided.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

The Show & Tell Geoboard Collection: Grades
2-4 (Ages 7-9)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Telling Time with Count Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 15-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This 15-minute video covers the concepts of time, including the function of the short hand and the long hand of the clock and their relation to hours, minutes, quarter and half hours; the time of day; and how to count the minutes by fives. Two children are encouraged to learn to tell time so they will be on time for a hot air balloon ride. Through their grandfather's friend, Count Clock and his talking clock, they are introduced to telling time.

Comments:

- This video may appear dated as it has a 1983 copyright.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Alfred Higgins Productions

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1983

Telling Time with Count Clock

Est. WCP Price(s):

\$95.00 (School)

\$850.00 (School

10-Pack)

\$227.00 (District /

Board)

Supplier: LRI

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>



Tick Tock: All About the Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 16-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This 16-minute colour video discusses how to tell time on various types of clocks. Concepts covered include the functions of the hour, minute and second hands; how to tell time on a digital clock; how the earth and sun influence time; and how time was told before the invention of clocks. This resource also explains what hours, minutes and seconds mean.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Omega Films

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1992

Tick Tock: All About the Clock

Est. WCP Price(s):

\$126.00

\$1071.00 (10 Copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>



What Time Is It? (2nd Ed.)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 11-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This 11-minute animated, colour video explores the concept of time and relates time to children's everyday experiences. Topics covered include hours, minutes and seconds; the long and short hands of a clock; telling time by quarter and half hours; how to count the minutes by fives; the importance of being able to tell time; and the concept of day and night.

Comments:

- This video received an American Film Festival Award.
- A U.S. mailbox is pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Coronet Film & Video

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:

1972

What Time Is It? (2nd Ed.)

Est. WCP Price(s):

\$99.00 (1-4 copies)
\$87.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover



Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



A Collection of Math Lessons: From Grades 1 through 3 *A Collection of Math Lessons*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

193 pages, softcover

Author(s):

Burns, M.; Tank, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource presents practical classroom-tested ideas for teaching mathematics through problem solving. Lessons are grouped into four sections: Building Number Sense, Developing Understanding of Place Value, Geometry and Measurement Experiences, and Probability Activities. Lessons model how to promote student thinking and reasoning, implement cooperative group learning, use concrete materials, and integrate writing into mathematics instruction. Samples of student work are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0941355012

A Collection of Math Lessons: From Grades 1
through 3

Est. WCP Price(s):

\$23.76

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 1-3

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Annotation:

This set of teacher resources focuses on counting, number combinations and patterns. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Counting - 104 pages, coilbound
- Number Combinations - 102 pages, coilbound
- Patterns - 104 pages, coilbound.



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078050

1995 1561078069

1995 1561078077

Components:

• Constructing Ideas About Counting: Grades 1-3

• Constructing Ideas About Number Combinations: Grades 1-3

• Constructing Ideas About Patterns: Grades 1-3

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9850

Internet: <http://ednet.edc.gov.ab>

Curriculum and Evaluation Standards for School Mathematics: Kindergarten Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

24 pages, softcover

Author(s):

Burton, Grace; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533100

Curriculum and Evaluation Standards for
School Mathematics: Kindergarten Book

Est. WCP Price(s):

\$13.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Curriculum and Evaluation Standards for School Mathematics: First Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

24 pages, softcover

Author(s):

Burton, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533119

Curriculum and Evaluation Standards for
School Mathematics: First Grade Book

Est. WCP Price(s):

\$13.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Developing Number Concepts Using Unifix®Cubes

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

218 pages plus 79 worksheets, softcover

Author(s):

Richardson, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource provides ideas for exploring and investigating mathematical concepts ranging from beginning counting to the introduction of multiplication and division. A variety of independent activities and teacher-directed activities for small groups will help teachers make effective use of the cubes when teaching number concepts. Emphasis is placed on students learning concepts, first using real objects, and then on making the connections with mathematical symbols. The resource focuses on number concepts and number operations, and to a lesser degree, shapes, data analysis and probability.

Audience: General / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1984 0201061171

Developing Number Concepts Using
Unifix®Cubes

Est. WCP Price(s):

\$31.48

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/Irdc>

Diagnostic Mathematics Program, Division 1 (includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 277 pages, coilbound
- Operations and Properties - 266 pages, coilbound
- Measurement - 164 pages, coilbound
- Geometry - 207 pages, coilbound
- Problem Solving - 234 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre
(LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 1
(includes Numeration, Operations and
Properties, Measurement, Geometry and
Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier:

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			



Just for Grade One
Just for Series

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

44 pages, softcover

Author(s):

Bergren, K.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Annotation:

This resource focuses on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzlers and games, using pattern blocks, teddy bear counters, linker cubes and coins are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted to fit different student abilities and interests. Blackline masters are provided.

Comments:

• Some activities on money cover concepts that are not part of the Protocol Framework.

Cautions:

• American money is pictured but Canadian money can be substituted.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓			✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079057

Just for Grade One

Est. WCP Price(s):

\$13.15

Supplier: LRP

Phone: (403) 427-1111

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Primary)

- Just for Pattern Blocks (Primary)
- Just for Teddy Bear Counters (Primary)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Pattern Blocks - 43 pages, softcover
- Teddy Bear Counters - 42 pages, softcover



Author(s):

O'Donnell, C. (Pattern Blocks)
Reak, C. (Teddy Bear Counters)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561078956
1996 1561078972

Components:

- Just for Pattern Blocks (Primary)
- Just for Teddy Bear Counters (Primary)

Est. WCP Price(s):

\$13.15
\$13.15

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

- Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



M-3 Mathematics: Mapping Mathematical Meaning

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Annotation:

- 'Oh No, Maths!' Developing Confidence in Mathematics

This resource describes one teacher's strategies for developing a child-centred, activity-based mathematics program in the primary classroom. The teaching and learning emphasis is on the personal experience each student has with mathematical ideas. Problems and practical solutions are discussed in the areas of assessment and evaluation, record keeping by students and teachers, and parent-teacher communication. Samples of planning and evaluation records, anecdotal records and student work are included.

- Mathematics: How to Assess and Report

This resource provides teachers with practical advice on assessing students' mathematical progress. Areas discussed include changing ideas on assessment, methods of assessment, diagnosing results and reporting to parents. Samples of student work, anecdotal records and ways of recording student progress are included.

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- 'Oh No, Maths!' Developing Confidence in Mathematics - 64 pages, softcover
- Mathematics: How to Assess and Report - 47 pages, softcover



Author(s):

Murphy, F. ('Oh No, Maths!')
Jordan, M. (Mathematics: How to Assess and Report)

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Ashton Scholastic

Distributor: Scholastic-TAB Publications Ltd.
123 Newkirk Road
RICHMOND HILL ON L4C 3G5

Phone: (800) 268-3848

Fax: (800) 268-4944

Copyright: ISBN:

1991 0868968080

1993 086896834X

Components:

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Est. WCP Price(s):

\$12.50

\$12.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math and Literature

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book One - 73 pages, softcover
- Book Two - 134 pages, softcover



Author(s):

Burns, M. (Book One)
Sheffield, S. (Book Two)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

These teacher guides present a number of strategies and lessons for linking the teaching of mathematics with children's literature and writing. The lessons model problem-solving investigations that can be initiated through the use of books and are based on classroom-tested ideas. Samples of student work, assessment examples and a bibliography are included. The lessons correspond to a broad range of learning outcomes. While the grade level at which sample lessons were taught is indicated, teachers can decide on the appropriateness of each lesson for the level of their students.

• Math and Literature (K-3): Book One

This resource has 10 detailed lessons, each based on a specific book, and a list of 21 additional books valuable for mathematics lessons, with instructional ideas for each.

• Math and Literature (K-3): Book Two

This resource has 21 detailed, literature-based lessons and an index of mathematical outcomes.

Cautions:

- Children's books selected for use in these teacher guides were not reviewed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355071
1995 094135511X

Components:

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Est. WCP Price(s):

\$14.78
\$14.78

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Math Excursions 1:
Project-Based Mathematics for
First Graders**
Math Excursions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

259 pages, coilbound

Author(s):

Burk, D.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Annotation:

This teacher resource is a set of five integrated, theme-based units. Each unit revolves around a specific project or investigation that serves as a springboard for problem solving and teaching mathematical concepts, ranging from geometry, measurement and sorting, to estimation, patterning and computation. The units integrate reading, writing, mathematics, art, science and social studies to create meaningful experiences for students. The activities are open-ended and use manipulatives. The resource includes classroom management techniques and clear and detailed unit plans that follow a common format. Blackline masters, a scope and sequence chart and suggestions for assessment are provided.

Cautions:

- Imperial Measure is used occasionally.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓			✓	

Publisher: Heinemann

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (800) 387-0172

Fax: (416) 445-5967

Copyright: ISBN:

1992 0435083317

Math Excursions 1: Project-Based Mathematics
for First Graders

Est. WCP Price(s):

\$50.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher
Discussion Guide, 48 pages, softcover, in a
cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts
1-3

Est. WCP Price(s):

\$32

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533399

Est. WCP Price(s):

\$12.20

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Phone: (703) 620-9840

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Fax: (703) 476-2970



Mathematics in the Making: Authoring Ideas in Primary Classrooms

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

197 pages, softcover

Author(s):

Mills, H.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource describes how teachers can help children use personal stories to demonstrate their mathematical thinking. Based on classroom experiences, the writers draw comparisons to the authoring cycle used in language arts by describing primary children who revise, collaborate and make personal connections to mathematical situations. Practical suggestions for projects and activities are supported by examples of children's writing and drawing, and appropriate evaluation strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Heinemann Educational Books

Copyright: ISBN:

1996 0435071009

Est. WCP Price(s):

\$38.60

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Mathematics in the Making: Authoring Ideas in Primary Classrooms

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Phone: (905) 660-0611

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Fax: (905) 660-0676



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$32

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover



Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Place Value: Grades 1-2
Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

191 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓							

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Annotation:

This teacher resource provides a complete unit of instruction to help students make sense of large numbers and develop an understanding of place value. Activities are designed to approach place value in a variety of ways – estimating and counting, looking for patterns, relating the number system to money, and working with concrete materials in everyday contexts. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, titles of children's books and homework. Also included are blackline masters, samples of student work, recording sheets and a bibliography.

Cautions:

- American money is used in the blackline masters.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0941355098

Place Value: Grades 1-2

Est. WCP Price(s):

\$32.60

Supplier: LRDC

Phone: (403) 427-

Fax: (403) 422-

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Problem Solver 1: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Approximately 150 pages, binder

Author(s):

Hoogeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step, problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Fifty-four teaching problems with recommended strategies are presented. The second section presents 18 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 088488581X

The Problem Solver 1: Activities for Learning Problem-Solving Strategies

Est. WCP Price(s):

\$47.49

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover



Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/>



Puddle Questions: Assessing Mathematical Thinking: Grade 1 Puddle Questions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

96 pages, coilbound



Author(s):

Westley, J.

Annotation:

This teacher resource is designed to assess students' mathematical thinking through problem-solving activities that are authentic and open-ended. Eight investigations focus on different mathematical concepts and cover all strands. Teacher support includes directions, suggested methods for scoring students' work, holistic scoring rubrics for each problem and ways to extend student learning. Samples of student work, representing low, medium, high and excellent responses, and blackline masters are provided.

Comments:

• Blackline masters are in English and Spanish.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 1561073407

Puddle Questions: Assessing Mathematical Thinking: Grade 1

Est. WCP Price(s):

\$3

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Smart Arithmetic: A Thinking Approach to Computation

- Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)
- Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)
- Game Mats (Grades 1-3)
- Game Mats (Grades 4-6)
- Dice & Card Games (Grades 1-3)
- Dice & Card Games (Grades 4-6)
- Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:		Components:	Est. WCP Price
1996	1561079170	• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)	\$33.50
1996	1561079189	• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)	\$33.50
1996	0762202483	• Game Mats (Grades 1-3)	\$21.80
1996	0762202491	• Game Mats (Grades 4-6)	\$21.80
1996	0762200189	• Dice & Card Games (Grades 1-3)	\$14.55
1996	0762200170	• Dice & Card Games (Grades 4-6)	\$14.55
1996	1561079871 (video)	• Videocassette, Workshop Guide	\$58.20
	0762201428 (guide)		

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Teaching and Learning with
Computers: Mathematics
Teacher Guide: First Grade (3rd
Ed.)**

*Teaching and Learning with
Computers*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

About 300 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Annotation:

This guide book provides suggestions to help teachers implement and manage teaching and learning mathematics with computers. Information is presented on preparing and managing the classroom environment. For each mathematics topic there are a variety of whole group, computer centre and learning centre activities to introduce, develop, practise and extend concepts. Problem solving, manipulatives, communication and cooperative learning are included.

Comments:

- Some of the ideas are transferable to computer programs that have been approved.

Cautions:

- Software referenced in the binder was submitted but not approved.
- Manipulatives referenced would need to be purchased, but many are already in classrooms.
- Imperial Measure is used.
- American coins are pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: IBM Canada Ltd. (Edmonton Office)

Distributor: IBM Canada Ltd. (Edmonton Office)
14 Floor, Exchange Tower
10250 - 101 Street
EDMONTON AB T5J 3P4

Phone: (403) 421-5709

Fax: (403) 421-5709

Copyright:

1994

Teaching and Learning with Computers:
Mathematics Teacher Guide: First Grade (3rd
Ed.)

Est. WCP Price(s):

\$215.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and Guide)

Est. WCP Price(s):

\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

20 Thinking Questions for Pattern Blocks: Grades 1-3 20 Thinking Questions

Authorization Status:

Authorized Teaching

WCP Category:

Depth Resource

Physical Characteristics:

84 pages, coilbound

Author(s):

Stewart, K.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource emphasises problem solving and communication in developing mathematical understanding. Students use pattern blocks to solve problems with multiple solutions or solution methods, and are encouraged to talk and write about their ideas. Students work as a whole class, in small groups or individually on 20 questions, with varying levels of difficulty. The format of each question is clear, easy to follow and provides sufficient information to facilitate student learning. Assessment methods, open-ended questions, extension activities and sample solutions are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561077909

20 Thinking Questions for Pattern Blocks:
Grades 1-3

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Writing Mathematics: Grade 1

Writing Mathematics

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, coilbound

Author(s):

Bosse, N.R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Annotation:

This teacher resource offers ten multi-day lessons designed to help children develop oral and written language as tools for learning and communicating mathematical ideas. Lessons are designed to ensure the active participation of students, the use of students' natural language and intuitive understandings, the connection of everyday language to the language of mathematics and the development of students as writers of expository writing. Each lesson includes an overview, plans for the mathematics investigation and writing extension, assessment criteria and ideas for promoting discourse. Manipulatives are needed in each lesson.

Cautions:

- The use of a large number of manipulatives is required.
- There are some references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078212

Writing Mathematics: Grade 1

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5700

Fax: (403) 422-9700

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 2)

- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters
- Activity Cards
- See What I Can Do Booklets (8 titles)
- Math Literature Pack

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Teacher's Resource Binder - Blackline Masters, 123 pages, softcover; Program Information Booklet; Program Information, 64 pages, softcover; Investigation and Developmental Units - 308 pages divided into 13 separate units; Mathematics and Children's Literature - 32 pages
- Practise on Your Own Masters - 78 pages, softcover
- Activity cards - 44 laminated cards in case
- See What I Can Do books, 8 titles - 8 pages each
- Math Literature Pack - 7 big books, four audiocassettes, 11 small books - 8 pages each



Author(s):

Small, M.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem-solvers and develop positive attitudes towards mathematics. Problem solving is the central focus of this program, and a concept-, language-, and activity-based approach is used. Connections are made with other curriculum areas, and assessment and evaluation are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level.

• Teacher's Resource Binder

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet; eight developmental and five investigation units; a mathematics and children's literature booklet; and a blackline masters book.

• Blackline Masters

This book includes home letters, general-use masters, assessment masters, specific-use masters and planning masters.

• Practise on Your Own Masters

These blackline masters can be used to supplement the practice activities for the eight developmental units. They are intended for those students who would benefit from additional, independent practice.

• Activity Cards

Activity cards provide teaching/learning activities to develop and consolidate mathematics learnings through independent, pair or group activities. The cards are referenced to the appropriate teaching units.

• See What I Can Do Booklets

This set of eight consumable booklets, one for each developmental unit, supports communication about learning to teachers, peers and parents and can serve as an evaluation component. Each booklet contains activities, games, problem solving, cumulative practice and a Thinking Back page.

• Math Literature Pack

This literature component consists of seven big books, 11 small books and four audiocassettes. It provides a real world context for developing mathematical concepts.

Comments:

- Activities, rather than written materials, are the focus of the program; however, there is systematic development of language and reflective writing.

Cautions:

- The treatment of Shape and Space has some extraneous material (such as standard units for mass) and some omissions (such as the decimetre).

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1994 0770223265

1995 0770225152

0770223257

0770223435

9999901336

Components:

- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters
- Activity Cards
- See What I Can Do Booklets (8 titles)
- Math Literature Pack

Est. WCP Price(s):

\$108.11

\$27.49

\$34.72

\$10.95

\$208.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics (Grade 2)

- Student Book (Revised Ed.)
- Teacher's Guide and Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher's Support Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 103 pages, softcover
- Teacher's Guide and Journal - 464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition) - 232 pages, softcover each
- Teacher's Support Package - 155 pages, softcover
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover

Author(s):

Wortzman, R.; et al.

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations. Students can record their feelings, thinking and understandings. Family notes suggest home activities to extend or reinforce learning.

• Teacher's Guide and Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; technology exploration centres that use commercial software.

• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but not included in the student book. Vocabulary development is confined to the teacher materials.
- Activities, rather than written materials, are the focus of the program.
- A glossary is included in the professional handbook, not the teacher's edition.

Cautions:

- Outcomes related to measurement should be supplemented.
- Images of coins on the blackline masters are of poor quality.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996	0201552639
1996	0201552647
1997	0201656698 (Set)
1997	0201552655
1997	0201696037
1997	0201696010

Components:

- Student Book (Revised Ed.)
- Teacher's Guide and Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher's Support Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Est. WCP Price(s):

\$10.50
\$105.95
\$39.95 (Set)
\$39.95
\$39.95
\$19.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Architek (English Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

18 blocks of various geometric shapes, 90 cards with 120 problems divided into five categories, one model-card and a complete instruction booklet with answers



Author(s):

Lyons, M.; Lyons, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This game, designed to develop motor, perception and intellectual skills in primary grade students, consists of 18 blocks of various geometric shapes and a set of problem cards. By using the blocks and cards to solve problems, students recognize and name solids, and explore the concepts of angles, proportion, similarity and force. The set of 120 problems, divided into five categories, provides for varying levels of difficulty and multiple solutions. The main focus is on the Shape and Space strand (3-D Objects and Transformations) and, to a lesser degree, the Patterns and Relations strand.

Audience: General / ESL / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓				✓	✓		

Publisher: Mondia

Distributor: Mondia, Éditeurs
1977, boulevard Industriel
LAVAL QC H7S 1P6

Phone: (514) 667-9221

Fax: (514) 667-8658

Copyright: ISBN:

1993 289114533X

Architek (English Version)

Est. WCP Price(s):

\$36

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Be SMART: Sorting, Matching, Arranging, Recognizing, Thinking Skills: Manipulative Activity
Resource: For Levels 1 to 3
Thinking in Action

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

285 pages, binder

Author(s):

Aggus, M.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource contains a sequenced set of blackline master activity sheets that help students develop the skills of observation, classification, seriation and correspondence. The activities are grouped in themes: Buttons; Blocks; Creatures Large and Small; Wheels, Wings and Waves. Students use a variety of manipulative materials to solve problems. Activity sheets may be used by individual students or in small group situations. Evaluation and recording charts are provided. The main focus of this resource is on the Patterns and Relations strand.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1990

Est. WCP Price(s):

\$29.66

Be SMART: Sorting, Matching, Arranging,
Recognizing, Thinking Skills: Manipulative
Activity Resource: For Levels 1 to 3

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Graph Club

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Two 3.5" discs, Teacher's Guide, 99 pages, binder
- Windows Version: Three 3.5" discs, Teacher's Guide, 99 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource is designed to help students read and interpret graphs, use graphs to communicate information, answer questions and solve problems. It assists students in making the transition from graphing with manipulatives to graphing in the abstract and helps them understand the relationship between different representations of the same data. Problem solving, cooperative learning and cross curricular integration are encouraged. Classroom tips and activities, sample graphs and blackline masters are included.

Comments:

- A variety of levels and abilities are addressed within this resource.

System Requirements:

- Macintosh: Macintosh Classic, System 7.0 or later, 4 MB RAM. It runs slowly on Macintosh Plus with System 6.07 and 1 MB RAM.
- Windows 3.1: 386/33 MHz, 4 MB RAM, sound card, VGA monitor, mouse.
- Windows 95: 486/50 MHz, 4 MB RAM, sound card, VGA monitor, mouse.

Cautions:

- There is no sort command to allow for changing display format and automatic sorting of data.
- See the teacher manual for unusual commands needed to open the Teacher Options.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Tom Snyder Productions Inc.

Distributor: Tom Snyder Productions Inc.
80 Coolidge Hill Road
WATERTOWN MA 02172-2817

Phone: (617) 926-6000 ext. 246

Fax: (617) 926-6222

Copyright:

1995

1996

Components:

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Est. WCP Price(s):

\$99.95 US\$

\$99.95 US\$

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

193 pages, binder

Author(s):

Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1993

Est. WCP Price(s):

Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 1-3

- Math Discoveries with Attribute Blocks: Grades 1-3
- Math Discoveries with Base Ten Blocks: Grades 1-3
- Math Discoveries with Pentominoes: Grades 1-3

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Attribute Blocks - 49 pages, softcover
- Base Ten Blocks - 49 pages, softcover
- Pentominoes - 49 pages, softcover



Author(s):

Goodnow, J. (Attribute Blocks; Base Ten Blocks)
Roper, A. (Pentominoes)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

These booklets provide hands-on activities, using attribute blocks, base ten blocks and pentominoes, that cover some outcomes from the Number, Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities and investigations, extensions, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary resources.

Cautions:

- The reading level in *Attribute Blocks* and *Base Ten Blocks* may be too difficult for some students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1995 156451076X

1994 1564510786

1995 1564501650

Components:

- Math Discoveries with Attribute Blocks: Grades 1-3 \$11.60
- Math Discoveries with Base Ten Blocks: Grades 1-3 \$11.60
- Math Discoveries with Pentominoes: Grades 1-3 \$11.60

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Math Discoveries: Grades 2-3

- Math Discoveries with Geoboards: Grades 2-3
- Math Discoveries with Pattern Blocks: Grades 2-3
- Math Discoveries with Tangrams: Grades 2-3

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Geoboards - 49 pages, softcover
- Pattern Blocks - 49 pages, softcover
- Tangrams - 49 pages, softcover

Author(s):

Goodnow, J. (Geoboards)
Goodnow, J. (Pattern Blocks)
Hooeboom, S. (Tangrams)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

These booklets provide hands-on activities, using geoboards, pattern blocks and tangrams, that cover some outcomes from the Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities, extensions, investigations, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary materials.

Cautions:

- Pattern blocks are limited.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1994 1564510778

1994 1564510743

1994 1564510751

Components:

- Math Discoveries with Geoboards: Grades 2-3
- Math Discoveries with Pattern Blocks: Grades 2-3
- Math Discoveries with Tangrams: Grades 2-3

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Measure It! Grades K to 3 (Ages

5-8)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

Cross, M; Connelly, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described.

Comments:

- Activities dealing with mL, m², and cm³ should be used in Grade 4.
- Kindergarten: No activities for positional language or money are included.
- Grades 1 and 2: There are few activities for time, temperature and money.
- Grade 3: The length units kilometre and decimetre are not included. There are no activities for time, temperature and money

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Measure It! Grades K to 3 (Ages 5-8)

Est. WCP Price(s):

\$31.46

Supplier: LRD

Phone: (403) 427-57

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:

1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User)

\$272.00 (Lab 10-Pack)

\$408.00 (Network/Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 1-3 (Ages 6-8)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

138 pages, binder

Author(s):

Hulland, J; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource comprises a sequenced set of problem-solving activities that use a variety of hands-on materials, with a focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasised and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

• Appropriate activities need to be selected for specific grade levels. Grade 1 to Grade 3 learner outcomes for number concepts, and Grade 2 and Grade 3 learner outcomes for number operations are addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

101 Winning Ways with Base 10: Activities for
Grades 1-3 (Ages 6-8)

Est. WCP Price(s):

\$31.46

Supplier: LRI

Phone: (403) 427-57

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Puzzling World of Tangrams and Pentominoes: Grades 3-9 (Ages 8-14)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

187 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓			

Annotation:

This resource contains a variety of activities, using tangrams and pentominoes, that address some of the learning outcomes in the Shape and Space strand. Through the blackline master puzzles, students develop spatial visualization and problem-solving strategies that relate to such concepts as transformations, angles, symmetry, congruence and similarity. Evaluation methods, sample solutions and record sheets are provided.

Comments:

• Most activities address the outcomes at Grade 5.

Cautions:

• Some learning outcomes, such as symmetry, are implied but not explicitly explained or used in the construction of solutions or strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1994

The Puzzling World of Tangrams and
Pentominoes: Grades 3-9 (Ages 8-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Show & Tell Geoboard Collection: Grades 2-4 (Ages 7-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

D'Angela, J.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓					

Annotation:

This resource focuses on hands-on activities using geoboards and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. It includes project work, group and individual assignments and an emphasis on integrating language and mathematics. Teacher notes, blackline master activity sheets and evaluation techniques are provided.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

The Show & Tell Geoboard Collection: Grades
2-4 (Ages 7-9)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Telling Time with Count Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 15-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This 15-minute video covers the concepts of time, including the function of the short hand and the long hand of the clock and their relation to hours, minutes, quarter and half hours; the time of day; and how to count the minutes by fives. Two children are encouraged to learn to tell time so they will be on time for a hot air balloon ride. Through their grandfather's friend, Count Clock and his talking clock, they are introduced to telling time.

Comments:

- This video may appear dated as it has a 1983 copyright.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Alfred Higgins Productions

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1983

Telling Time with Count Clock

Est. WCP Price(s):

\$95.00 (School)

\$850.00 (School

10-Pack)

\$227.00 (District /

Board)

Supplier: LRI

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Tick Tock: All About the Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 16-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This 16-minute colour video discusses how to tell time on various types of clocks. Concepts covered include the functions of the hour, minute and second hands; how to tell time on a digital clock; how the earth and sun influence time; and how time was told before the invention of clocks. This resource also explains what hours, minutes and seconds mean.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Omega Films

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1992

Tick Tock: All About the Clock

Est. WCP Price(s):

\$126.00

\$1071.00 (10 Copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



200 Things to Do with Logic Blocks: Grades K-8 (Ages 5-13) Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

119 pages, binder

Author(s):

Hulland, J.; McLean, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓					

Annotation:

This resource presents a variety of hands-on activities, using logic/attribute blocks. The activities are grouped into five areas: sorting and classification; sets and attributes; logical thinking as it applies to problem solving; tessellations, patterns and motion geometry; angles and lines of symmetry in 2-D shapes. Each section begins with an overview, teaching strategies and ideas for classroom organization, record keeping and evaluation. Blackline master activity cards guide students in play activities, creative thinking techniques and the basics of logic and problem solving.

Comments:

- Venn and tree diagrams are used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

200 Things to Do with Logic Blocks: Grades
K-8 (Ages 5-13)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



What Time Is It? (2nd Ed.)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 11-minute videocassette

Annotation:

This 11-minute animated, colour video explores the concept of time and relates time to children's everyday experiences. Topics covered include hours, minutes and seconds; the long and short hands of a clock; telling time by quarter and half hours; how to count the minutes by fives; the importance of being able to tell time; and the concept of day and night.

Comments:

- This video received an American Film Festival Award.
- A U.S. mailbox is pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Coronet Film & Video

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:

1972

What Time Is It? (2nd Ed.)

Est. WCP Price(s):

\$99.00 (1-4 copies)

\$87.00 (5-10 copies)

\$69.00 (11-15 copies)

\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Est. WCP Price(s):

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

\$44.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9775

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math with Your Kids

Est. WCP Price(s):

\$19.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

**A Collection of Math Lessons:
From Grades 1 through 3**
A Collection of Math Lessons

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

193 pages, softcover

Author(s):

Burns, M.; Tank, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource presents practical classroom-tested ideas for teaching mathematics through problem solving. Lessons are grouped into four sections: Building Number Sense, Developing Understanding of Place Value, Geometry and Measurement Experiences, and Probability Activities. Lessons model how to promote student thinking and reasoning, implement cooperative group learning, use concrete materials, and integrate writing into mathematics instruction. Samples of student work are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0941355012

A Collection of Math Lessons: From Grades 1 through 3

Est. WCP Price(s):

\$23.70

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 1-3

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Annotation:

This set of teacher resources focuses on counting, number combinations and patterns. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Counting - 104 pages, coilbound
- Number Combinations - 102 pages, coilbound
- Patterns - 104 pages, coilbound



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078050

1995 1561078069

1995 1561078077

Components:

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:
1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):
\$35.80

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840
Fax: (703) 476-2970

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics: Second Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

32 pages, softcover



Author(s):

Burton, G.; et al.

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:
1992 0873533127

Curriculum and Evaluation Standards for School Mathematics: Second Grade Book

Est. WCP Price(s):
\$13.95

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840
Fax: (703) 476-2970

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Developing Number Concepts Using Unifix® Cubes

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

218 pages plus 79 worksheets, softcover



Author(s):

Richardson, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource provides ideas for exploring and investigating mathematical concepts ranging from beginning counting to the introduction of multiplication and division. A variety of independent activities and teacher-directed activities for small groups will help teachers make effective use of the cubes when teaching number concepts. Emphasis is placed on students learning concepts, first using real objects, and then on making the connections with mathematical symbols. The resource focuses on number concepts and number operations, and to a lesser degree, shapes, data analysis and probability.

Audience: General / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1984 0201061171

Developing Number Concepts Using
Unifix® Cubes

Est. WCP Price(s)

\$31.48

Supplier:

Phone: (403) 422-9750

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>

**Diagnostic Mathematics Program,
Division 1 (includes Numeration,
Operations and Properties, Measurement,
Geometry and Problem Solving)**
Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 277 pages, coilbound
- Operations and Properties - 266 pages, coilbound
- Measurement - 164 pages, coilbound
- Geometry - 207 pages, coilbound
- Problem Solving - 234 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre
(LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 1
(includes Numeration, Operations and
Properties, Measurement, Geometry and
Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier:

LRDC

Phone: (403) 427-5773

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Geometry: Grade 2 Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

186 pages, softcover

Author(s):

Confer, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Annotation:

This teacher resource provides a complete unit of instruction to help students construct their own understanding of the properties of shapes, how shapes relate to one another and what happens when shapes are combined or divided. Students develop spatial understanding through a variety of problem-solving experiences, and geometry is integrated with other strands of mathematics. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, titles of children's books and homework. Also included are blackline masters, samples of student work, recording sheets and a bibliography.

Comments:

- This resource addresses only 2-D shapes.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓			

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 094135508X

Geometry: Grade 2

Est. WCP Price(s):

Supplier:

LRDC

Phone: (403) 427-5773

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

• Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.

• The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

• Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Est. WCP Price(s):

\$31.46

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Grade Two
Just for Series

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

44 pages, softcover

Author(s):

Bergren, K.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Annotation:

This resource focuses on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzles and games, using pattern blocks, teddy bear counters, linker cubes and coins are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted to fit different student abilities and interests. Blackline masters are provided.

Cautions:

- American money is pictured but Canadian money can be substituted.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079065

Just for Grade Two

Est. WCP Price(s):

\$13.15

Supplier: LRDC

Phone: (403) 477-7575

Fax: (403) 477-7575

Internet: <http://ednet.edc.gov.ab.ca/irde>



Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)



• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

• Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



M-3 Mathematics: Mapping Mathematical Meaning

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Annotation:

- 'Oh No, Maths!' Developing Confidence in Mathematics

This resource describes one teacher's strategies for developing a child-centred, activity-based mathematics program in the primary classroom. The teaching and learning emphasis is on the personal experience each student has with mathematical ideas. Problems and practical solutions are discussed in the areas of assessment and evaluation, record keeping by students and teachers, and parent-teacher communication. Samples of planning and evaluation records, anecdotal records and student work are included.

- Mathematics: How to Assess and Report

This resource provides teachers with practical advice on assessing students' mathematical progress. Areas discussed include changing ideas on assessment, methods of assessment, diagnosing results and reporting to parents. Samples of student work, anecdotal records and ways of recording student progress are included.

Authorization Status:

Authorized Teaching

Audience: General

WCP Category:

Teacher Resource

Physical Characteristics:

- 'Oh No, Maths!' Developing Confidence in Mathematics - 64 pages, softcover
- Mathematics: How to Assess and Report - 47 pages, softcover



Author(s):

Murphy, F. ('Oh No, Maths!')
Jordan, M. (Mathematics: How to Assess and Report)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Ashton Scholastic

Distributor: Scholastic-TAB Publications Ltd.
123 Newkirk Road
RICHMOND HILL ON L4C 3G5

Phone: (800) 268-3848

Fax: (800) 268-4944

Copyright: ISBN:

1991 0868968080

1993 086896834X

Components:

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Est. WCP Price(s):

\$12.50

\$12.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math and Literature

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book One - 73 pages, softcover
- Book Two - 134 pages, softcover



Author(s):

Burns, M. (Book One)
Sheffield, S. (Book Two)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

These teacher guides present a number of strategies and lessons for linking the teaching of mathematics with children's literature and writing. The lessons model problem-solving investigations that can be initiated through the use of books and are based on classroom-tested ideas. Samples of student work, assessment examples and a bibliography are included. The lessons correspond to a broad range of learning outcomes. While the grade level at which sample lessons were taught is indicated, teachers can decide on the appropriateness of each lesson for the level of their students.

• Math and Literature (K-3): Book One

This resource has 10 detailed lessons, each based on a specific book, and a list of 21 additional books valuable for mathematics lessons, with instructional ideas for each.

• Math and Literature (K-3): Book Two

This resource has 21 detailed, literature-based lessons and an index of mathematical outcomes.

Cautions:

- Children's books selected for use in these teacher guides were not reviewed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355071
1995 094135511X

Components:

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Est. WCP Price(s):

\$14.78
\$14.78

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide, 48 pages, softcover, in a cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts 1-3

Est. WCP Price(s):

\$327.60

Supplier: LRD

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics in the Making: Authoring Ideas in Primary Classrooms

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

197 pages, softcover

Author(s):

Mills, H.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435071009

Mathematics in the Making: Authoring Ideas in Primary Classrooms

Est. WCP Price(s):

\$38.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Annotation:

This resource describes how teachers can help children use personal stories to demonstrate their mathematical thinking. Based on classroom experiences, the writers draw comparisons to the authoring cycle used in language arts by describing primary children who revise, collaborate and make personal connections to mathematical situations. Practical suggestions for projects and activities are supported by examples of children's writing and drawing, and appropriate evaluation strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$327.60

Supplier: LRD

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mental Math in the Primary Grades: Blackline Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

117 pages, softcover



Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

This resource introduces strategies for teaching mental mathematics. It focuses on simple calculation with whole numbers, with an emphasis on the operations of addition and subtraction. Thirty-six lessons are organized in four units: Thinking Strategies for Addition; Thinking Strategies for Subtraction; Thinking in Patterns; Thinking Strategies for Larger Numbers. The first two units present good reasoning strategies to help students learn and remember the basic facts of addition and subtraction. The last two units present easy methods for mentally adding and subtracting with tens and hundreds. Each unit begins with the objectives and rationale for the lessons that follow, as well as ideas for a bulletin board display. Each lesson contains teaching notes and teaching transparencies. There is a short progress test, designed to be given orally, at the end of each unit.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0866514341

Mental Math in the Primary Grades: Blackline Masters

Est. WCP Price(s):

\$16.70

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

• This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Est. WCP Price(s):

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

\$36.20

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Place Value: Grades 1-2 Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

191 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓							

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Annotation:

This teacher resource provides a complete unit of instruction to help students make sense of large numbers and develop an understanding of place value. Activities are designed to approach place value in a variety of ways – estimating and counting, looking for patterns, relating the number system to money, and working with concrete materials in everyday contexts. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, titles of children's books and homework. Also included are blackline masters, samples of student work, recording sheets and a bibliography.

Cautions:

• American money is used in the blackline masters.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Est. WCP Price(s):

Copyright: ISBN:

1994 0941355098

Place Value: Grades 1-2

\$32.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948



The Problem Solver 2: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

138 pages, binder

Author(s):

Hoogeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓						✓	

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 0884225828

The Problem Solver 2: Activities for Learning Problem-Solving Strategies

Est. WCP Price(s):

\$47.49

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Fifty-four teaching problems with recommended strategies are presented. The second section presents 18 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Comments:

• Imperial Measure is used in some problems.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		

Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Puddle Questions: Assessing Mathematical Thinking: Grade 2 Puddle Questions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

96 pages, coilbound

Author(s):

Westley, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Annotation:

This teacher resource is designed to assess students' mathematical thinking through problem-solving activities that are authentic and open-ended. Eight investigations focus on different mathematical concepts and cover all strands. Teacher support includes directions, suggested methods for scoring students' work, holistic scoring rubrics for each problem and ways to extend student learning. Samples of student work, representing low, medium, high and excellent responses, and blackline masters are provided.

Comments:

- Blackline Masters are in English and Spanish.
- Imperial Measure is used.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 1561073415

Puddle Questions: Assessing Mathematical Thinking: Grade 2

Est. WCP Price(s)

\$35.62

Supplier:

Phone: (403) 757-1750

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/ird>



Smart Arithmetic: A Thinking Approach to Computation

- Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)
- Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)
- Game Mats (Grades 1-3)
- Game Mats (Grades 4-6)
- Dice & Card Games (Grades 1-3)
- Dice & Card Games (Grades 4-6)
- Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:
 1996 1561079170
 1996 1561079189
 1996 0762202483
 1996 0762202491
 1996 0762200189
 1996 0762200170
 1996 1561079871 (video)
 0762201428 (guide)

Components:
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3) \$33.50
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6) \$33.50
 • Game Mats (Grades 1-3) \$21.80
 • Game Mats (Grades 4-6) \$21.80
 • Dice & Card Games (Grades 1-3) \$14.55
 • Dice & Card Games (Grades 4-6) \$14.55
 • Videocassette, Workshop Guide \$58.20

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Teaching and Learning with
Computers: Mathematics
Teacher Guide: Second Grade
(3rd Ed.)**

*Teaching and Learning with
Computers*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

About 300 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Annotation:

This guide book provides suggestions to help teachers implement and manage teaching and learning mathematics with computers. Information is presented on preparing and managing the classroom environment. For each mathematics topic there are a variety of whole group, computer centre and learning centre activities to introduce, develop, practise and extend concepts. Problem solving, manipulatives, communication and cooperative learning are included.

Comments:

- Some of the ideas are transferable to computer programs that have been approved

Cautions:

- Software referenced in the binder was submitted but not approved.
- Manipulatives referenced would need to be purchased, but many are already in classrooms.
- Imperial Measure is used.
- American coins are pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: IBM Canada Ltd. (Edmonton Office)

Distributor: IBM Canada Ltd. (Edmonton Office)

14 Floor, Exchange Tower
10250 - 101 Street
EDMONTON AB T5J 3P4

Phone: (403) 421-5709

Fax: (403) 421-5709

Est. WCP Price(s):

Teaching and Learning with Computers:
Mathematics Teacher Guide: Second Grade
(3rd Ed.)

\$215.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's
Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and
Guide)

Est. WCP Price(s):

\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



20 Thinking Questions for Pattern Blocks: Grades 1-3 20 Thinking Questions

Authorization Status:

Authorized Teaching

WCP Category:

Depth Resource

Physical Characteristics:

84 pages, coilbound

Author(s):

Stewart, K., et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource emphasises problem solving and communication in developing mathematical understanding. Students use pattern blocks to solve problems with multiple solutions or solution methods, and are encouraged to talk and write about their ideas. Students work as a whole class, in small groups or individually on 20 questions, with varying levels of difficulty. The format of each question is clear, easy to follow and provides sufficient information to facilitate student learning. Assessment methods, open-ended questions, extension activities and sample solutions are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561077909

20 Thinking Questions for Pattern Blocks:
Grades 1-3

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



20 Thinking Questions for Base Ten Blocks: Grades 2-3

20 Thinking Questions

Authorization Status:

Authorized Teaching

WCP Category:

Depth Resource

Physical Characteristics:

83 pages, coilbound

Author(s):

Stewart, K., et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

This resource emphasizes problem solving and communication in developing mathematical understanding. Students use base ten blocks to solve problems with multiple solutions or solution methods, and are encouraged to talk and write about their ideas. Students work as a whole class, in small groups or individually on 20 questions, with varying levels of difficulty. The format of each question is clear, easy to follow and provides sufficient information to facilitate student learning. Assessment methods, open-ended questions, extension activities and sample solutions are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561077925

20 Thinking Questions for Base Ten Blocks:
Grades 2-3

Est. WCP Price(s):

\$32.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9756

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Writing Mathematics: Grade 2

Writing Mathematics

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

50 pages, coilbound

Author(s):

Bosse, N.R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Annotation:

This teacher resource offers ten multi-day lessons designed to help children develop oral and written language as tools for learning and communicating mathematical ideas. Lessons are designed to ensure the active participation of students, the use of students' natural language and intuitive understandings, the connection of everyday language in the language of mathematics and the development of students as writers of expository writing. Each lesson includes an overview, plans for the mathematics investigation and writing extension, assessment criteria and ideas for promoting discourse. Manipulatives are needed in each lesson.

Cautions:

• There are some references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078220

Writing Mathematics: Grade 2

Est. WCP Price:

\$32.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9756

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>

Interactions (Level 3)

- Student Textbook
- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 214 pages, hardcover
- Teacher's Resource Binder - Blackline Masters, 132 pages, softcover; Program Information Booklet - 64 pages, softcover; Investigation and Developmental Units - 308 pages divided into 13 separate units; Mathematics and Children's Literature - 32 pages
- Practise on Your Own Masters - 83 pages, softcover

Author(s):

Small, M.; et al.

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem-solvers and develop positive attitudes towards mathematics. Problem solving is the central focus of this program and a concept-, language- and activity-based approach is used. Connections are made with other curriculum areas, and assessment and evaluation are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Binder summarizes the concepts covered at each grade level.

• Student Text

This student text includes collaborative and independent learning activities, and a variety of problem-solving strategy activities. Students are encouraged to communicate and express ideas through talking, writing and using representational forms. Students can make choices, and practise and consolidate their learning through games, problems and activities.

• Teacher's Resource Binder

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet; nine developmental and four investigation units; a mathematics and children's literature booklet; and a blackline masters book.

• Blackline Masters

This book includes home letters, general-use masters, assessment masters and specific-use masters.

• Practise on Your Own Masters

These blackline masters can be used to supplement the practice activities for the nine developmental units. They are intended for those students who would benefit from additional, independent practice.

Comments:

- The resource helps students acquire number sense through a variety of problem-solving and estimating activities. In number operations, the long-term aim is to have students use and understand standard procedures for common processes such as addition and subtraction, rather than use their own individually invented procedures.
- Activities, rather than written materials, are the focus of the program; however, there is systematic development of language and reflective writing.

Cautions:

- Activities on decimals and symmetry are extraneous.
- The development of outcomes relating to vertical, horizontal and perpendicular lines, congruent objects and shapes, and the use of vertical and horizontal lines as graphing tools needs to be supplemented.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1993 0770223389

1995 0770223397

1994 0770225403

Components:

- Student Textbook
- Teacher's Resource Binder (includes Blackline Masters)
- Practise on Your Own Masters

Est. WCP Price(s):

\$21.77

\$88.13

\$27.49

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics (Grade 3)

- Student Book (Revised Ed.)
- Teacher's Guide and Journal
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 268 pages, hardcover
- Teacher's Guide and Journal - 480 pages, coilbound
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition) - 197 pages, softcover each
- Teacher Support Package - 107 pages, softcover
- Technology Package - 34 pages, softcover, one 3.5" IBM disc, one 3.5" Macintosh disc
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover

Author(s):

Wortzman, R.; et al.

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. Also included are a problem bank and skill bank at the end of each unit and questions for journal writing.

• Teacher's Guide and Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities, and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology exploration centres that use commercial software.

• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw, paint, and database environments. Exploration centres file disks are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods used, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's edition.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Cautions:

- Outcomes related to measurement should be supplemented.
- The concepts related to the metric system of measurement are embedded in student tasks and not made explicit.
- Images of coins on the blackline masters are of poor quality.
- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable preparatory work before students can use it. The package assumes a more sophisticated teacher audience than the other materials do.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1996	0201552663
1996	0201552671
1997	0201656701 (Set)
1997	020155268X
1997	0201892438
1997	0201696045
1997	0201696010

Components:

- Student Book (Revised Ed.)
- Teacher's Guide and Journal
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Est. WCP Price(s):

\$22.20
\$105.95
\$39.95 (Set)
\$39.95
\$42.95
\$39.95
\$19.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Architek (English Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

18 blocks of various geometric shapes, 90 cards with 120 problems divided into five categories, one model-card and a complete instruction booklet with answers



Author(s):

Lyons, M.; Lyons, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This game, designed to develop motor, perception and intellectual skills in primary grade students, consists of 18 blocks of various geometric shapes and a set of problem cards. By using the blocks and cards to solve problems, students recognize and name solids, and explore the concepts of angles, proportion, similarity and force. The set of 120 problems, divided into five categories, provides for varying levels of difficulty and multiple solutions. The main focus is on the Shape and Space strand (3-D Objects and Transformations) and, to a lesser degree, the Patterns and Relations strand.

Audience: General / ESL / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓				✓	✓		

Publisher: Mondia

Distributor: Mondia, Éditeurs
1977, boulevard Industriel
LAVAL QC H7S 1P6

Phone: (514) 667-9221

Fax: (514) 667-8658

Copyright: ISBN:

1993 289114533X

Architek (English Version)

Est. WCP Price(s):

\$36

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Be SMART: Sorting, Matching, Arranging, Recognizing, Thinking Skills: Manipulative Activity
Resource: For Levels 1 to 3
Thinking in Action

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

285 pages, binder

Author(s):

Aggus, M.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource contains a sequenced set of blackline master activity sheets that help students develop the skills of observation, classification, seriation and correspondence. The activities are grouped in themes: Buttons; Blocks; Creatures Large and Small; Wheels, Wings and Waves. Students use a variety of manipulative materials to solve problems. Activity sheets may be used by individual students or in small group situations. Evaluation and recording charts are provided. The main focus of this resource is on the Patterns and Relations strand.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1990

Be SMART: Sorting, Matching, Arranging, Recognizing, Thinking Skills: Manipulative Activity Resource: For Levels 1 to 3

Est. WCP Price(s):

\$29.66

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Graph Club

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Two 3.5" discs, Teacher's Guide, 99 pages, binder
- Windows Version: Three 3.5" discs, Teacher's Guide, 99 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource is designed to help students read and interpret graphs, use graphs to communicate information, answer questions and solve problems. It assists students in making the transition from graphing with manipulatives to graphing in the abstract and helps them understand the relationship between different representations of the same data. Problem solving, cooperative learning and cross curricular integration are encouraged. Classroom tips and activities, sample graphs and blackline masters are included.

Comments:

- A variety of levels and abilities are addressed within this resource.

System Requirements:

- Macintosh: Macintosh Classic, System 7.0 or later, 4 MB RAM. It runs slowly on Macintosh Plus with System 6.07 and 1 MB RAM.
- Windows 3.1: 386/33 MHz, 4 MB RAM, sound card, VGA monitor, mouse.
- Windows 95: 486/50 MHz, 4 MB RAM, sound card, VGA monitor, mouse.

Cautions:

- There is no sort command to allow for changing display format and automatic sorting of data.
- See the teacher manual for unusual commands needed to open the Teacher Options.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Tom Snyder Productions Inc.

Distributor: Tom Snyder Productions Inc.
80 Coolidge Hill Road
WATERTOWN MA 02172-2817

Phone: (617) 926-6000 ext. 246

Fax: (617) 926-6222

Copyright:

1995

1996

Components:

- The Graph Club (Macintosh Version 1.14) (Single User)
- The Graph Club (Windows Version 1.2) (Single User)

Est. WCP Price(s):

\$99.95 US\$

\$99.95 US\$

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Kids 'n' Calculators: How to Use
the Calculator as a Teaching
Tool: Grades K-6 (Ages 5-11)**
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

193 pages, binder

Author(s):

Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1993

Kids 'n' Calculators: How to Use the Calculator
as a Teaching Tool: Grades K-6 (Ages 5-11)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 1-3

- Math Discoveries with Attribute Blocks: Grades 1-3
- Math Discoveries with Base Ten Blocks: Grades 1-3
- Math Discoveries with Pentominoes: Grades 1-3

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Attribute Blocks - 49 pages, softcover
- Base Ten Blocks - 49 pages, softcover
- Pentominoes - 49 pages, softcover



Author(s):

Goodnow, J. (Attribute Blocks; Base Ten Blocks)
Roper, A. (Pentominoes)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

These booklets provide hands-on activities, using attribute blocks, base ten blocks and pentominoes, that cover some outcomes from the Number, Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities and investigations, extensions, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary resources.

Cautions:

- The reading level in *Attribute Blocks* and *Base Ten Blocks* may be too difficult for some students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1995 156451076X

1994 1564510786

1995 1564501650

Components:

- Math Discoveries with Attribute Blocks: Grades 1-3 \$11.60
- Math Discoveries with Base Ten Blocks: Grades 1-3 \$11.60
- Math Discoveries with Pentominoes: Grades 1-3 \$11.60

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Math Discoveries: Grades 2-3

WCP

- Math Discoveries with Geoboards: Grades 2-3
- Math Discoveries with Pattern Blocks: Grades 2-3
- Math Discoveries with Tangrams: Grades 2-3

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Geoboards - 49 pages, softcover
- Pattern Blocks - 49 pages, softcover
- Tangrams - 49 pages, softcover

Author(s):

Goodnow, J. (Geoboards)
Goodnow, J. (Pattern Blocks)
Hooeboom, S. (Tangrams)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

These booklets provide hands-on activities, using geoboards, pattern blocks and tangrams, that cover some outcomes from the Patterns and Relations, and Shape and Space strands. Some problem solving and group work ideas are provided. Reproducible student activities, extensions, investigations, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary materials.

Cautions:

- Pattern blocks are limited.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓			✓	✓	✓		

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1994 1564510778

1994 1564510743

1994 1564510751

Components:

- Math Discoveries with Geoboards: Grades 2-3
- Math Discoveries with Pattern Blocks: Grades 2-3
- Math Discoveries with Tangrams: Grades 2-3

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 3-4

- Math Discoveries about Data & Chance with Manipulatives: Grades 3-4
- Math Discoveries about Geometry with Manipulatives: Grades 3-4
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 3-4
- Math Discoveries about Patterns with Manipulatives: Grades 3-4

Annotation:

These booklets are designed to help students understand concepts through hands-on activities, using a variety of manipulatives. Some problem solving and group work ideas are provided. Reproducible student explorations and investigations, extensions, teacher notes, and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- These resources are useful as supplementary materials.

Audience: General

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Data & Chance - 54 pages, softcover
- Geometry - 54 pages, softcover
- Numbers & Operations - 54 pages, softcover
- Patterns - 54 pages, softcover

Author(s):

Callahan, R. (Numbers & Operations)
Gerke, M.; Weishar, M. J. (Patterns)
Sammons, K.; Kobett, B. (Data & Chance)
Wallaker, J. (Geometry)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	✓

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1564511812
1996 1564511685
1996 1564511928
1996 1564511863

Components:

- Math Discoveries about Data & Chance with Manipulatives: Grades 3-4
- Math Discoveries about Geometry with Manipulatives: Grades 3-4
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 3-4
- Math Discoveries about Patterns with Manipulatives: Grades 3-4

Est. WCP Price(s):

\$11.60
\$11.60
\$11.60
\$11.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Mathville Mindway: Math
Problem Solving: Ages 8-12
(Macintosh / Windows Version
1.0)**

Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM



Annotation:

Mathville Mindway is a virtual midway where traditional games of skill and chance are transformed into mathematics activities. There are eight games on the Mindway and students are free to explore any of the games and to choose difficulty levels within each game. Students use problem solving skills related to the four strands of the mathematics program. The activities are engaging and have visual appeal for students.

Comments:

- Each of the games has a different grade placement; a match between grade and game is not provided.

System Requirements:

- Macintosh: System 7 or higher, 8 MB RAM, 640x480 256 colour monitor, CD drive, sound card.
- Windows 3.1: 486/50 MHz, 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.
- Windows 95: 486/66 MHz (Pentium 100 MHz recommended), 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.

Cautions:

- In the Magic Doors game, the doors close very quickly and there may not be sufficient time for students to process information.
- This resource could be problematic for students with poor hand-eye coordination.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright:

1996

Mathville Mindway: Math Problem Solving:
Ages 8-12 (Macintosh / Windows Version 1.0)

Est. WCP Price(s):

\$56.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Measure It! Grades K to 3 (Ages

5-8)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

Cross, M; Connelly, R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Measure It! Grades K to 3 (Ages 5-8)

Est. WCP Price(s):

\$31.46

Supplier: LRD

Phone: (403) 427-5711

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described.

Comments:

- Activities dealing with mL, m², and cm³ should be used in Grade 4.
- Kindergarten: No activities for positional language or money are included.
- Grades 1 and 2: There are few activities for time, temperature and money.
- Grade 3: The length units kilometre and decimetre are not included. There are no activities for time, temperature and money

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:

1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User)

\$272.00 (Lab 10-Pack)

\$408.00 (Network/Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 1-3 (Ages 6-8)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

138 pages, binder

Author(s):

Hulland, J, Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource comprises a sequenced set of problem-solving activities that use a variety of hands-on materials, with a focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasised and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

• Appropriate activities need to be selected for specific grade levels. Grade 1 to Grade 3 learner outcomes for number concepts, and Grade 2 and Grade 3 learner outcomes for number operations are addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

101 Winning Ways with Base 10: Activities for
Grades 1-3 (Ages 6-8)

Est. WCP Price(s):

\$31.46

Supplier:

LRI

Phone: (403) 427-5711

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



**The Puzzling World of Tangrams
and Pentominoes: Grades 3-9
(Ages 8-14)**
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

187 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Annotation:

This resource contains a variety of activities, using tangrams and pentominoes, that address some of the learning outcomes in the Shape and Space strand. Through the blackline master puzzles, students develop spatial visualization and problem-solving strategies that relate to such concepts as transformations, angles, symmetry, congruence and similarity. Evaluation methods, sample solutions and record sheets are provided.

Comments:

- Most activities address the outcomes at Grade 5.

Cautions:

- Some learning outcomes, such as symmetry, are implied but not explicitly explained or used in the construction of solutions or strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1994

The Puzzling World of Tangrams and
Pentominoes: Grades 3-9 (Ages 8-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Show & Tell Geoboard
Collection: Grades 2-4 (Ages 7-9)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

D'Angela, J.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓					

Annotation:

This resource focuses on hands-on activities using geoboards and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. It includes project work, group and individual assignments and an emphasis on integrating language and mathematics. Teacher notes, blackline master activity sheets and evaluation techniques are provided.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

The Show & Tell Geoboard Collection: Grades
 2-4 (Ages 7-9)

Est. WCP Price(s):

\$31.46

Supplier:

LRD

Phone: (403) 427-5711

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Telling Time with Count Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 15-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This 15-minute video covers the concepts of time, including the function of the short hand and the long hand of the clock and their relation to hours, minutes, quarter and half hours; the time of day; and how to count the minutes by fives. Two children are encouraged to learn to tell time so they will be on time for a hot air balloon ride. Through their grandfather's friend, Count Clock and his talking clock, they are introduced to telling time.

Comments:

• This video may appear dated as it has a 1983 copyright.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Alfred Higgins Productions

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1983

Telling Time with Count Clock

Est. WCP Price(s):

\$95.00 (School)

\$850.00 (School

10-Pack)

\$227.00 (District /

Board)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Tick Tock: All About the Clock

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 16-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This 16-minute colour video discusses how to tell time on various types of clocks. Concepts covered include the functions of the hour, minute and second hands; how to tell time on a digital clock; how the earth and sun influence time; and how time was told before the invention of clocks. This resource also explains what hours, minutes and seconds mean.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Omega Films

Distributor: Omega Films
3501 McNicoll Avenue, Unit #7
SCARBOROUGH ON M1V 2N3

Phone: (416) 291-4733

Fax: (416) 291-7775

Copyright:

1992

Tick Tock: All About the Clock

Est. WCP Price(s):

\$126.00

\$1071.00 (10 Copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



200 Things to Do with Logic Blocks: Grades K-8 (Ages 5-13) *Active Learning*

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

119 pages, binder

Author(s):

Hulland, J.; McLean, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓					

Annotation:

This resource presents a variety of hands-on activities, using logic/attribute blocks. The activities are grouped into five areas: sorting and classification; sets and attributes; logical thinking as it applies to problem solving; tessellations, patterns and motion geometry; angles and lines of symmetry in 2-D shapes. Each section begins with an overview, teaching strategies and ideas for classroom organization, record keeping and evaluation. Blackline master activity cards guide students in play activities, creative thinking techniques and the basics of logic and problem solving.

Comments:

- Venn and tree diagrams are used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

200 Things to Do with Logic Blocks: Grades
K-8 (Ages 5-13)

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5700

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



What Time Is It? (2nd Ed.)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 11-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This 11-minute animated, colour video explores the concept of time and relates time to children's everyday experiences. Topics covered include hours, minutes and seconds; the long and short hands of a clock; telling time by quarter and half hours; how to count the minutes by fives; the importance of being able to tell time; and the concept of day and night.

Comments:

- This video received an American Film Festival Award.
- A U.S. mailbox is pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓		✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Coronet Film & Video

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:

1972

What Time Is It? (2nd Ed.)

Est. WCP Price(s):

\$99.00 (1-4 copies)

\$87.00 (5-10 copies)

\$69.00 (11-15 copies)

\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover



Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

Supplier: LRD

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**A Collection of Math Lessons:
From Grades 1 through 3**
A Collection of Math Lessons

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

193 pages, softcover

Author(s):

Burns, M.; Tank, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource presents practical classroom-tested ideas for teaching mathematics through problem solving. Lessons are grouped into four sections: Building Number Sense, Developing Understanding of Place Value, Geometry and Measurement Experiences, and Probability Activities. Lessons model how to promote student thinking and reasoning, implement cooperative group learning, use concrete materials, and integrate writing into mathematics instruction. Samples of student work are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0941355012

A Collection of Math Lessons: From Grades 1 through 3

Est. WCP Price(s):

\$23.70

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 1-3

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Annotation:

This set of teacher resources focuses on counting, number combinations and patterns. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Counting - 104 pages, coilbound
- Number Combinations - 102 pages, coilbound
- Patterns - 104 pages, coilbound.



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078050

1995 1561078069

1995 1561078077

Components:

- Constructing Ideas About Counting: Grades 1-3
- Constructing Ideas About Number Combinations: Grades 1-3
- Constructing Ideas About Patterns: Grades 1-3

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 3-6

- Constructing Ideas About Large Numbers: Grades 3-6
- Constructing Ideas About Multiplication and Division: Grades 3-6
- Constructing Ideas About Fractions: Grades 3-6

Annotation:

This set of teacher resources focuses on large numbers, multiplication and division, and fractions. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Cautions:

- The resource on large numbers uses Imperial Measure.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Large Numbers - 104 pages, coilbound
- Multiplication and Division - 104 pages, coilbound
- Fractions - 104 pages, coilbound



Author(s):

Brodie, J.P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078093

1995 1561078085

1995 1561078107

Components:

- Constructing Ideas About Large Numbers: \$28.10
- Constructing Ideas About Multiplication and Division: Grades 3-6 \$28.10
- Constructing Ideas About Fractions: Grades 3-6 \$28.10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Cooperative Problem Solving

- Cooperative Problem Solving with Base Ten Blocks
- Cooperative Problem Solving with Calculators
- Cooperative Problem Solving with Pattern Blocks
- Cooperative Problem Solving with Tangrams
- Cooperative Problem Solving with Attribute Blocks

Annotation:

This set of five binders focuses on cooperative problem solving using base ten blocks, calculators, pattern blocks, tangrams and attribute blocks. Problems are designed to be solved by small groups of students working together in a cooperative learning situation. Each binder contains information on cooperative learning strategies, teaching suggestions and blackline master activity cards for each problem, along with recording sheets. Sample solutions are included. There are 80 problems in each binder, with the exception of the calculators binder which has 72 problems.

Cautions:

- Imperial Measure is used in the calculators binder.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks, 84 pages, binder
- Calculators, 86 pages, binder
- Pattern Blocks, 87 pages, binder
- Tangrams, 87 pages, binder
- Attribute Blocks, 90 pages, binder



Author(s):

Goodnow, J.; Hoogeboom, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 1561070834

1991 1561071781

1991 0884887316

1991 0884887324

1991 0884887480

Components:

- Cooperative Problem Solving with Base Ten Blocks \$31.90
- Cooperative Problem Solving with Calculators \$33.40
- Cooperative Problem Solving with Pattern Blocks \$31.90
- Cooperative Problem Solving with Tangrams \$31.90
- Cooperative Problem Solving with Attribute Blocks \$31.90

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics: Third Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

32 pages, softcover



Author(s):

Burton, G.; et al.

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533135

Curriculum and Evaluation Standards for School Mathematics: Third Grade Book

Est. WCP Price(s):

\$15.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Developing Number Concepts Using Unifix®Cubes

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

218 pages plus 79 worksheets, softcover

Author(s):

Richardson, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

This resource provides ideas for exploring and investigating mathematical concepts ranging from beginning counting to the introduction of multiplication and division. A variety of independent activities and teacher-directed activities for small groups will help teachers make effective use of the cubes when teaching number concepts. Emphasis is placed on students learning concepts, first using real objects, and then on making the connections with mathematical symbols. The resource focuses on number concepts and number operations, and to a lesser degree, shapes, data analysis and probability.

Audience: General / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1984 0201061171

Developing Number Concepts Using
Unifix®Cubes

Est. WCP Price(s):

\$31.48

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Diagnostic Mathematics Program, Division 1 (includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 277 pages, coilbound
- Operations and Properties - 266 pages, coilbound
- Measurement - 164 pages, coilbound
- Geometry - 207 pages, coilbound
- Problem Solving - 234 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre (LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 1
(includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Division: Grades 3-4

Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

207 pages, softcover

Author(s):

Ohanian, S.; Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓								✓

Annotation:

This teacher resource provides a complete unit of instruction that uses a broad range of problem-solving experiences to develop an understanding of division. Students solve problems in a variety of real-world contexts. They investigate division through a geometric perspective and by examining patterns and analyzing statistical data. To integrate division into all strands of mathematics, activities include ideas from Number, Patterns and Relations, Shape and Space, and Statistics and Probability. The unit is built on the assumption that students have already learned about multiplication before studying division. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, titles of children's books and homework. Also included are blackline masters, samples of student work and a bibliography.

Cautions:

- Some Imperial Measure references are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 0941355063

Division: Grades 3-4

Est. WCP Price(s):

\$32.60

Supplier:

Phone: (403) 427-4444

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10

Active Learning

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

• Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



M-3 Mathematics: Mapping Mathematical Meaning

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Annotation:

- 'Oh No, Maths!' Developing Confidence in Mathematics

This resource describes one teacher's strategies for developing a child-centred, activity-based mathematics program in the primary classroom. The teaching and learning emphasis is on the personal experience each student has with mathematical ideas. Problems and practical solutions are discussed in the areas of assessment and evaluation, record keeping by students and teachers, and parent-teacher communication. Samples of planning and evaluation records, anecdotal records and student work are included.

- Mathematics: How to Assess and Report

This resource provides teachers with practical advice on assessing students' mathematical progress. Areas discussed include changing ideas on assessment, methods of assessment, diagnosing results and reporting to parents. Samples of student work, anecdotal records and ways of recording student progress are included.

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- 'Oh No, Maths!' Developing Confidence in Mathematics - 64 pages, softcover
- Mathematics: How to Assess and Report - 47 pages, softcover



Author(s):

Murphy, F. ('Oh No, Maths!')
Jordan, M. (Mathematics: How to Assess and Report)

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Ashton Scholastic

Distributor: Scholastic-TAB Publications Ltd.
123 Newkirk Road
RICHMOND HILL ON L4C 3G5

Phone: (800) 268-3848

Fax: (800) 268-4944

Copyright: ISBN:

1991 0868968080

1993 086896834X

Components:

- 'Oh No, Maths!' Developing Confidence in Mathematics
- Mathematics: How to Assess and Report

Est. WCP Price(s):

\$12.50

\$12.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math and Literature

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book One - 73 pages, softcover
- Book Two - 134 pages, softcover



Author(s):

Burns, M. (Book One)
Sheffield, S. (Book Two)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Annotation:

These teacher guides present a number of strategies and lessons for linking the teaching of mathematics with children's literature and writing. The lessons model problem-solving investigations that can be initiated through the use of books and are based on classroom-tested ideas. Samples of student work, assessment examples and a bibliography are included. The lessons correspond to a broad range of learning outcomes. While the grade level at which sample lessons were taught is indicated, teachers can decide on the appropriateness of each lesson for the level of their students.

• Math and Literature (K-3): Book One

This resource has 10 detailed lessons, each based on a specific book, and a list of 21 additional books valuable for mathematics lessons, with instructional ideas for each.

• Math and Literature (K-3): Book Two

This resource has 21 detailed, literature-based lessons and an index of mathematical outcomes.

Cautions:

- Children's books selected for use in these teacher guides were not reviewed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355071
1995 094135511X

Components:

- Math and Literature (K-3) Book One
- Math and Literature (K-3) Book Two

Est. WCP Price(s):

\$14.78
\$14.78

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide, 48 pages, softcover, in a cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts 1-3

Est. WCP Price(s):

\$327.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource describes how teachers can help children use personal stories to demonstrate their mathematical thinking. Based on classroom experiences, the writers draw comparisons to the authoring cycle used in language arts by describing primary children who revise, collaborate and make personal connections to mathematical situations. Practical suggestions for projects and activities are supported by examples of children's writing and drawing, and appropriate evaluation strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

197 pages, softcover

Author(s):

Mills, H.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435071009

Mathematics in the Making: Authoring Ideas in Primary Classrooms

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$327.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mental Math in the Primary Grades: Blackline Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

117 pages, softcover



Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

This resource introduces strategies for teaching mental mathematics. It focuses on simple calculation with whole numbers, with an emphasis on the operations of addition and subtraction. Thirty-six lessons are organized in four units: Thinking Strategies for Addition; Thinking Strategies for Subtraction; Thinking in Patterns; Thinking Strategies for Larger Numbers. The first two units present good reasoning strategies to help students learn and remember the basic facts of addition and subtraction. The last two units present easy methods for mentally adding and subtracting with tens and hundreds. Each unit begins with the objectives and rationale for the lessons that follow, as well as ideas for a bulletin board display. Each lesson contains teaching notes and teaching transparencies. There is a short progress test, designed to be given orally, at the end of each unit.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0866514341

Mental Math in the Primary Grades: Blackline Masters

Est. WCP Price(s):

\$16.70

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Multiplication: Grade 3 Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

142 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Annotation:

This resource provides a complete unit of instruction that uses a broad range of problem-solving experiences to develop an understanding of multiplication. Activities are designed to approach the concept of multiplication from several perspectives—geometric, numerical and through real-world contexts. To integrate multiplication into all strands of mathematics, activities include ideas from Number, Patterns and Relations, Shape and Space, and Statistics and Probability. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, homework and questions teachers ask. Also included are blackline masters, vignettes from the classroom and samples of student work.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓		✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓								

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 0941355047

Multiplication: Grade 3

Est. WCP Price(s):

\$32.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Probability: Grades 3-4

Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

254 pages, softcover

Author(s):

Ohanian, S.; Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Annotation:

This teacher resource provides a complete unit of instruction in which students use games, experiments and investigations to predict outcomes, test predictions and formulate probability theories. Students work with a variety of materials to learn about the likelihood of events, that sample sets of data are useful for making predictions about outcomes and that the size of the sample affects the reliability of the information. The activities are structured so that they are accessible to children with limited mathematics experience and ability, but are also capable of challenging more experienced students. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, portfolios and homework. Also included are blackline masters, vignettes from the classroom and samples of student work.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 0941355128

Probability: Grades 3-4

Est. WCP Price(s):

\$32.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Problem Solver 3: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

142 pages, binder

Author(s):

Hoozeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step, problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Forty-eight teaching problems with recommended strategies are presented. The second section presents 72 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Cautions:

- Imperial Measure is used in some problems.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Copyright: ISBN:

1987 0884885836

The Problem Solver 3: Activities for Learning Problem-Solving Strategies

Est. WCP Price(s):

\$47.49

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Puddle Questions: Assessing Mathematical Thinking: Grade 3 Puddle Questions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

96 pages, coilbound

Author(s):

Westley, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Annotation:

This teacher resource is designed to assess student's mathematical thinking through problem-solving activities that are authentic and open-ended. Eight investigations focus on different mathematical concepts and cover all strands. Teacher support includes directions, suggested methods for scoring students' work, holistic scoring rubrics for each problem and ways to extend student learning. Samples of student work, representing low, medium, high and excellent responses, and blackline masters are provided.

Comments:

- Blackline masters are in English and Spanish.
- Imperial Measure and S.I. are used.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 1561073423

Puddle Questions: Assessing Mathematical Thinking: Grade 3

Est. WCP Price(s):

\$35.62

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Smart Arithmetic: A Thinking Approach to Computation

- Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)
- Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)
- Game Mats (Grades 1-3)
- Game Mats (Grades 4-6)
- Dice & Card Games (Grades 1-3)
- Dice & Card Games (Grades 4-6)
- Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
26 Prince Andrew Place-
P.O. Box 580
DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:		Components:	Est. WCP Price(s):
1996	1561079170	• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)	\$33.50
1996	1561079189	• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)	\$33.50
1996	0762202483	• Game Mats (Grades 1-3)	\$21.80
1996	0762202491	• Game Mats (Grades 4-6)	\$21.80
1996	0762200189	• Dice & Card Games (Grades 1-3)	\$14.55
1996	0762200170	• Dice & Card Games (Grades 4-6)	\$14.55
1996	1561079871 (video)	• Videocassette, Workshop Guide	\$58.20
	0762201428 (guide)		

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Teaching and Learning with
Computers: Mathematics
Teacher Guide: Third Grade**
*Teaching and Learning with
Computers*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

About 300 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Annotation:

This guide book provides suggestions to help teachers implement and manage teaching and learning mathematics with computers. Information is presented on preparing and managing the classroom environment. For each mathematics topic there are a variety of whole group, computer centre and learning centre activities to introduce, develop, practise and extend concepts. Problem solving, manipulatives, communication and cooperative learning are included.

Comments:

- Some of the ideas are transferable to computer programs that have been approved.

Cautions:

- Software referenced in the binder was submitted but not approved.
- Manipulatives referenced would need to be purchased, but many are already in classrooms.
- Imperial Measure is used.
- American coins are pictured.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: IBM Canada Ltd. (Edmonton Office)

Distributor: IBM Canada Ltd. (Edmonton Office)
14 Floor, Exchange Tower
10250 - 101 Street
EDMONTON AB T5J 3P4

Phone: (403) 421-5709

Fax: (403) 421-5709

Copyright:

1994

Teaching and Learning with Computers:
Mathematics Teacher Guide: Third Grade

Est. WCP Price(s):

\$215.00

Supplier:

LRDC

Phone: (403) 427-5700

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and Guide)

Est. WCP Price(s):

\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



20 Thinking Questions for Pattern Blocks: Grades 1-3 20 Thinking Questions

Authorization Status:

Authorized Teaching

WCP Category:

Depth Resource

Physical Characteristics:

84 pages, coilbound

Author(s):

Stewart, K.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓						

Annotation:

This resource emphasises problem solving and communication in developing mathematical understanding. Students use pattern blocks to solve problems with multiple solutions or solution methods, and are encouraged to talk and write about their ideas. Students work as a whole class, in small groups or individually on 20 questions, with varying levels of difficulty. The format of each question is clear, easy to follow and provides sufficient information to facilitate student learning. Assessment methods, open-ended questions, extension activities and sample solutions are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561077909

20 Thinking Questions for Pattern Blocks:
Grades 1-3

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5700

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



20 Thinking Questions for Base Ten Blocks: Grades 2-3

20 Thinking Questions

Authorization Status:

Authorized Teaching

WCP Category:

Depth Resource

Physical Characteristics:

83 pages, coilbound

Author(s):

Stewart, K.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓						

Annotation:

This resource emphasizes problem solving and communication in developing mathematical understanding. Students use base ten blocks to solve problems with multiple solutions or solution methods, and are encouraged to talk and write about their ideas. Students work as a whole class, in small groups or individually on 20 questions, with varying levels of difficulty. The format of each question is clear, easy to follow and provides sufficient information to facilitate student learning. Assessment methods, open-ended questions, extension activities and sample solutions are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561077925

20 Thinking Questions for Base Ten Blocks:
Grades 2-3

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Writing Mathematics: Grade 3

Writing Mathematics

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

50 pages, coilbound

Author(s):

Bosse, N.R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Annotation:

This teacher resource offers ten multi-day lessons designed to help children develop oral and written language as tools for learning and communicating mathematical ideas. Lessons are designed to ensure the active participation of students, the use of students' natural language and intuitive understandings, the connection of everyday language to the language of mathematics and the development of students as writers of expository writing. Each lesson includes an overview, plans for the mathematics investigation and writing extension, assessment criteria and ideas for promoting discourse. Manipulatives are needed in each lesson.

Cautions:

- There are some references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078239

Writing Mathematics: Grade 3

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Interactions (Level 4)

- Student Textbook
- Teacher's Resource Book

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Text - 233 pages, hardcover
- Teacher's Resource Book - 463 pages, coilbound, and Program Information, 60 pages, softcover

Author(s):

Small, M.; et al.

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem solvers and develop positive attitudes toward mathematics. Problem solving is the central focus of this program and a concept-, language- and activity-based approach is used. Connections are made with other curriculum areas, and some assessment and evaluation strategies are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Book summarizes the concepts covered at each grade level.

• Student Textbook

This student text includes collaborative and independent learning activities and a variety of problem-solving strategy activities. Students are encouraged to communicate and express ideas through talking, writing and using representational forms. Students can make choices, and practise and consolidate their learning through games, problems and activities.

• Teacher's Resource Book

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet, eight developmental and four investigation units.

Comments:

- The resource helps students acquire number sense through a variety of problem-solving and estimating activities.
- Content from different strands is integrated through the instructional activities.
- The teacher's resource book is essential in developing appropriate concept depth; the student text alone is not sufficient.
- Activities, rather than written materials, are the focus of the program; however, there is systematic development of language and reflective writing.

Cautions:

- The scope and sequence chart in the Program Information book should be read in conjunction with the Protocol framework.
- Student text pages are sometimes cluttered.
- The resource does not contain a glossary.

Audience: General

Mathematical Processes:

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright:

1997

1997

Components:

- Student Textbook
- Teacher's Resource Book

Est. WCP Price(s):

\$22.60

\$185.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics: Grade 4

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice & Testing Masters (Student's Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 288 pages, hardcover
- Teacher's Guide & Journal - 464 pages, coilbound; Solutions Manual - 68 pages, softcover
- Extra Practice & Testing Masters (Student Edition; Teacher's Edition) - 184 pages, softcover each
- Teacher Support Package - 111 pages, softcover
- Technology Package - 32 pages, softcover, two 3.5" program discs
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover

Author(s):

Wortzman, R.; et al.

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.

• Teacher's Guide & Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and exploration centres, some of which use commercial software.

• Solutions Manual

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• Extra Practice and Testing Masters (Student's Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw; paint and database environments. Exploration centres file disks are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Cautions:

- Money problems go to \$25 not \$50.
- There is some extraneous material on fractions in Unit 6.
- Images of coins on the blackline masters are of poor quality
- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable preparatory work before students can use it. The package assumes a more sophisticated teacher audience than the other materials do.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996	0201552698
1997	0201681293 (Set)
1997	020165671X (Set)
1997	020155271X
1997	0201898446
1996	0201696053
1997	0201696010

Components:

• Student Book	\$21.95
• Teacher's Guide & Journal; Solutions Manual	\$99.95 (Set)
• Extra Practice & Testing Masters (Student's Edition; Teacher's Edition with Answers)	\$39.95 (Set)
• Teacher Support Package	\$39.95
• Technology Package	\$42.95
• Problem of the Week	\$39.95
• Professional Handbook (Revised Ed.)	\$19.95

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing
 164 Commander Boulevard
 SCARBOROUGH ON M1S 3C7
Phone: (800) 667-1115 ; (416) 293-8141
Fax: (416) 293-9009

Copyright:
 1996
 1996

Components:
 • Hot Dog Stand: The Works (Macintosh)
 • Hot Dog Stand: The Works (Windows)

Est. WCP Price(s):
 \$89.95
 \$89.95

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Intermediate Probability Jobcards

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

Laminated Notes to the Teacher card, one solution card, one spinners card and 20 activity cards



Author(s):

Hoozeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This set of 20 activity cards poses questions about the probability of something occurring, then follows up with hands-on experiments in which students can make predictions, gather data, record and display data in a variety of ways (charts, tables, lists, graphs) and draw conclusions. The jobcards include games, in which students use coins, spinners, dice and cubes. The activities are designed to help students develop an intuitive understanding of equal and unequal chances of events occurring and decide whether or not games are fair or unfair. Jobcards may be used in individual mathematics projects, small cooperative learning group work or in learning centres. Teacher notes, brief descriptions of the activities, solutions and four spinners are included.

Cautions:

- American coins are pictured in some activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 156107103X

Intermediate Probability Jobcards

Est. WCP Price(s):

\$24.48

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Kids 'n' Calculators: How to Use
the Calculator as a Teaching
Tool: Grades K-6 (Ages 5-11)**
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

193 pages, binder

Author(s):

Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1993

Kids 'n' Calculators: How to Use the Calculator
as a Teaching Tool: Grades K-6 (Ages 5-11)

Est. WCP Price(s):

\$31.46

Supplier:

LE

Phone: (403) 427-5

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 3-4

- Math Discoveries about Data & Chance with Manipulatives: Grades 3-4
- Math Discoveries about Geometry with Manipulatives: Grades 3-4
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 3-4
- Math Discoveries about Patterns with Manipulatives: Grades 3-4

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Data & Chance - 54 pages, softcover
- Geometry - 54 pages, softcover
- Numbers & Operations - 54 pages, softcover
- Patterns - 54 pages, softcover



Author(s):

Callahan, R. (Numbers & Operations)
Gerke, M.; Weishar, M. J. (Patterns)
Sammons, K.; Kobett, B. (Data & Chance)
Wallaker, J. (Geometry)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	✓

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1564511812
1996 1564511685
1996 1564511928
1996 1564511863

Components:

- Math Discoveries about Data & Chance with Manipulatives: Grades 3-4
- Math Discoveries about Geometry with Manipulatives: Grades 3-4
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 3-4
- Math Discoveries about Patterns with Manipulatives: Grades 3-4

Est. WCP Price(s):

\$11.60
\$11.60
\$11.60
\$11.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Tools (Windows Version 1.5) Math Tools

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price:

\$58.94

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathville Mindway: Math Problem Solving: Ages 8-12 (Macintosh / Windows Version 1.0)

Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Annotation:

Mathville Mindway is a virtual midway where traditional games of skill and chance are transformed into mathematics activities. There are eight games on the Mindway and students are free to explore any of the games and to choose difficulty levels within each game. Students use problem solving skills related to the four strands of the mathematics program. The activities are engaging and have visual appeal for students.

Comments:

- Each of the games has a different grade placement; a match between grade and game is not provided.

System Requirements:

- Macintosh: System 7 or higher, 8 MB RAM, 640x480 256 colour monitor, CD drive, sound card.
- Windows 3.1: 486/50 MHz, 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.
- Windows 95: 486/66 MHz (Pentium 100 MHz recommended), 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.

Cautions:

- In the Magic Doors game, the doors close very quickly and there may not be sufficient time for students to process information.
- This resource could be problematic for students with poor hand-eye coordination.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright:

1996

Mathville Mindway: Math Problem Solving:
Ages 8-12 (Macintosh / Windows Version 1.0)

Est. WCP Price(s):

\$56.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Measure It: Grades 4-6 (Ages 9-11)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

150 pages, binder

Author(s):

Connolly, R.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described. Length units used are kilometres, metres, centimetres and millimetres. Area units used are hectares and square kilometres, with some activities involving the use of a formula. Mass units are kilograms and grams. Capacity units are litres and millilitres.

Comments:

- Money, circumference and time are not addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

Measure It: Grades 4-6 (Ages 9-11)

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mental Math in the Middle
Grades: Blackline Masters

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

121 pages, softcover

Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource presents strategies for teaching mental mathematics. It focuses on more difficult mental calculations with whole numbers. Students learn such techniques as searching for compatibles, tack on trailing zeros and front end multiplying. Thirty-six lessons are organized in four units: The Memory of a Mentalmathlete; Doing Several Things at Once; Complicated Mental Calculations; An Interesting Number Pattern. Each lesson contains an introductory page to the new mental mathematics strategy, a power-builder page, with two sets of practice problems, and a review page. There is a progress test, with suggestions for administration, at the end of each unit. A cumulative test designed to be used as a pre-test and post-test and answer keys for all practice sets and tests are also provided.

Cautions:

- Imperial Measure is used occasionally.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987

0866513124

Mental Math in the Middle Grades: Blackline Masters

Est. WCP Price(s):

\$17.75

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:

1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User)

\$272.00 (Lab 10-Pack)

\$408.00 (Network/Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 4-6 (Ages 9-11)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

200 pages, binder

Author(s):

Cross, M.; Hulland, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Annotation:

This resource comprises a sequenced set of problem-solving activities that focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasized and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

- Appropriate activities need to be selected for specific grade levels.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

101 Winning Ways with Base 10: Activities for
Grades 4-6 (Ages 9-11)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5111

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

121 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Puzzling World of Tangrams and Pentominoes: Grades 3-9 (Ages 8-14)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

187 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓			

Annotation:

This resource contains a variety of activities, using tangrams and pentominoes, that address some of the learning outcomes in the Shape and Space strand. Through the blackline master puzzles, students develop spatial visualization and problem-solving strategies that relate to such concepts as transformations, angles, symmetry, congruence and similarity. Evaluation methods, sample solutions and record sheets are provided.

Comments:

- Most activities address the outcomes at Grade 5.

Cautions:

- Some learning outcomes, such as symmetry, are implied but not explicitly explained or used in the construction of solutions or strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1994

The Puzzling World of Tangrams and
Pentominoes: Grades 3-9 (Ages 8-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Show & Tell Geoboard
Collection: Grades 2-4 (Ages 7-9)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

148 pages, binder

Author(s):

D'Angela, J.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓					

Annotation:

This resource focuses on hands-on activities using geoboards and geopaper to develop understanding of patterning, counting, two-dimensional figures, slides and flips. It includes project work, group and individual assignments and an emphasis on integrating language and mathematics. Teacher notes, blackline master activity sheets and evaluation techniques are provided.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

Est. WCP Price(s):

The Show & Tell Geoboard Collection: Grades
 2-4 (Ages 7-9)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



200 Things to Do with Logic Blocks: Grades K-8 (Ages 5-13) Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

119 pages, binder

Author(s):

Hulland, J.; McLean, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓					

Annotation:

This resource presents a variety of hands-on activities, using logic/attribute blocks. The activities are grouped into five areas: sorting and classification; sets and attributes; logical thinking as it applies to problem solving; tessellations, patterns and motion geometry; angles and lines of symmetry in 2-D shapes. Each section begins with an overview, teaching strategies and ideas for classroom organization, record keeping and evaluation. Blackline master activity cards guide students in play activities, creative thinking techniques and the basics of logic and problem solving.

Comments:

- Venn and tree diagrams are used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓							

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

200 Things to Do with Logic Blocks: Grades K-8 (Ages 5-13)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 3-6

- Constructing Ideas About Large Numbers: Grades 3-6
- Constructing Ideas About Multiplication and Division: Grades 3-6
- Constructing Ideas About Fractions: Grades 3-6

Annotation:

This set of teacher resources focuses on large numbers, multiplication and division, and fractions. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Cautions:

- The resource on large numbers uses Imperial Measure.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Large Numbers - 104 pages, coilbound
- Multiplication and Division - 104 pages, coilbound
- Fractions - 104 pages, coilbound



Author(s):

Brodie, J.P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078093

1995 1561078085

1995 1561078107

Components:

• Constructing Ideas About Large Numbers: Grades 3-6 \$28.10
• Constructing Ideas About Multiplication and Division: Grades 3-6 \$28.10
• Constructing Ideas About Fractions: Grades 3-6 \$28.10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Cooperative Problem Solving

- Cooperative Problem Solving with Base Ten Blocks
- Cooperative Problem Solving with Calculators
- Cooperative Problem Solving with Pattern Blocks
- Cooperative Problem Solving with Tangrams
- Cooperative Problem Solving with Attribute Blocks

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks, 84 pages, binder
- Calculators, 86 pages, binder
- Pattern Blocks, 87 pages, binder
- Tangrams, 87 pages, binder
- Attribute Blocks, 90 pages, binder



Author(s):

Goodnow, J.; Hoogeboom, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Annotation:

This set of five binders focuses on cooperative problem solving using base ten blocks, calculators, pattern blocks, tangrams and attribute blocks. Problems are designed to be solved by small groups of students working together in a cooperative learning situation. Each binder contains information on cooperative learning strategies, teaching suggestions and blackline master activity cards for each problem, along with recording sheets. Sample solutions are included. There are 80 problems in each binder, with the exception of the calculators binder which has 72 problems.

Cautions:

- Imperial Measure is used in the calculators binder.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 1561070834

1991 1561071781

1991 0884887316

1991 0884887324

1991 0884887480

Components:

- Cooperative Problem Solving with Base Ten Blocks \$31.90
- Cooperative Problem Solving with Calculators \$33.40
- Cooperative Problem Solving with Pattern Blocks \$31.90
- Cooperative Problem Solving with Tangrams \$31.90
- Cooperative Problem Solving with Attribute Blocks \$31.90

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab>

Curriculum and Evaluation Standards for School Mathematics: Fourth Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

32 pages, softcover



Author(s):

Burton, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533143

Curriculum and Evaluation Standards for School Mathematics: Fourth Grade Book

Est. WCP Price(s):

\$15.75

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Diagnostic Mathematics Program, Division 2 (includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 420 pages, coilbound
- Operations and Properties - 352 pages, coilbound
- Measurement - 214 pages, coilbound
- Geometry - 224 pages, coilbound
- Problem Solving - 332 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre (LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 2
(includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Division: Grades 3-4

Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

207 pages, softcover

Author(s):

Ohanian, S.; Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Annotation:

This teacher resource provides a complete unit of instruction that uses a broad range of problem-solving experiences to develop an understanding of division. Students solve problems in a variety of real-world contexts. They investigate division through a geometric perspective and by examining patterns and analyzing statistical data. To integrate division into all strands of mathematics, activities include ideas from Number, Patterns and Relations, Shape and Space, and Statistics and Probability. The unit is built on the assumption that students have already learned about multiplication before studying division. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, titles of children's books and homework. Also included are blackline masters, samples of student work and a bibliography.

Cautions:

• Some Imperial Measure references are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓								✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 0941355063

Division: Grades 3-4

Est. WCP Price(s):

\$32.60

Supplier:

LRDC

Phone: (403) 427-5777

Fax: (403) 422-9710

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

• References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
• Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing

1800 Steeles Ave W

CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Est. WCP Price(s):

\$31.46

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Intermediate)

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks - 41 pages, softcover
- Fraction Circles - 42 pages, softcover
- Geoboards - 44 pages, softcover
- Pattern Blocks - 44 pages, softcover
- Rainbow Cubes - 42 pages, softcover
- Tangrams - 44 pages, softcover

Author(s):

Alexander, C. (Fraction Circles; Tangrams)
Colton, R. (Base Ten Blocks)
O'Donnell, C. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Annotation:

These resources focus on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzlers and games, using a variety of manipulatives are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted for different student abilities and interests

Cautions:

- Imperial Measure is used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079006
1996 1561079014
1996 1561079049
1996 1561078999
1996 1561079022
1996 1561079030

Components:

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Est. Price(s):

\$13.15
\$13.15
\$13.15
\$13.15
\$13.15
\$13.15

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

- Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. Price(s):

\$48.40

\$10.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher
Discussion Guide, 48 pages, softcover, in a
cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts
1-3

Est. WCP Price(s):

\$327.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$327.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover



Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Probability: Grades 3-4
Math By All Means

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

254 pages, softcover

Author(s):

Ohanian, S.; Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Annotation:

This teacher resource provides a complete unit of instruction in which students use games, experiments and investigations to predict outcomes, test predictions and formulate probability theories. Students work with a variety of materials to learn about the likelihood of events, that sample sets of data are useful for making predictions about outcomes and that the size of the sample affects the reliability of the information. The activities are structured so that they are accessible to children with limited mathematics experience and ability, but are also capable of challenging more experienced students. The unit provides information on whole class lessons, menu activities for individual and small group learning experiences, assessments, portfolios and homework. Also included are blackline masters, vignettes from the classroom and samples of student work.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 0941355128

Probability: Grades 3-4

Est. WCP Price(s):

\$32.60

Supplier: LRDC

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Problem Solver 4: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

142 pages, binder

Author(s):

Hooeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 0884885844

The Problem Solver 4: Activities for Learning Problem-Solving Strategies

Est. WCP Price(s):

\$47.49

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step, problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Forty-eight teaching problems with recommended strategies are presented. The second section presents 72 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Cautions:

- Imperial Measure is used in some problems.
- A wicked witch is mentioned in problem 73.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Puddle Questions: Assessing Mathematical Thinking: Grade 4 Puddle Questions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

96 pages, coilbound

Author(s):

Westley, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This teacher resource is designed to assess students' mathematical thinking, reasoning and understanding through problem-solving activities that are authentic and open-ended. Eight investigations focus on different mathematical concepts and cover all strands. Teacher support includes directions, suggested methods of scoring, holistic scoring rubrics for each problem and ways to extend student learning. Samples of student work, representing low, medium, high and excellent responses, and blackline masters are provided.

Comments:

- Blackline masters are in English and Spanish.
- Imperial Measure is used.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 1561073431

Puddle Questions: Assessing Mathematical Thinking: Grade 4

Est. WCP Price(s):

\$35.62

Supplier: LRDC

Phone: (403) 427-5777

Fax: (403) 422-9756

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Smart Arithmetic: A Thinking Approach to Computation

• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)

• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)

• Game Mats (Grades 1-3)

• Game Mats (Grades 4-6)

• Dice & Card Games (Grades 1-3)

• Dice & Card Games (Grades 4-6)

• Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:
 1996 1561079170
 1996 1561079189
 1996 0762202483
 1996 0762202491
 1996 0762200189
 1996 0762200170
 1996 1561079871 (video)
 0762201428 (guide)

Components:
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3) \$33.50
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6) \$33.50
 • Game Mats (Grades 1-3) \$21.80
 • Game Mats (Grades 4-6) \$21.80
 • Dice & Card Games (Grades 1-3) \$14.55
 • Dice & Card Games (Grades 4-6) \$14.55
 • Videocassette, Workshop Guide \$58.20

Est. WCP Price

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's
Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and
Guide)

Est. WCP Price(s):
\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Writing Mathematics: Grade 4

Writing Mathematics

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

52 pages, coilbound

Author(s):

Bosse, N.R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Annotation:

This teacher resource offers ten multi-day lessons designed to help children develop oral and written language as tools for learning and communicating mathematical ideas. Lessons are designed to ensure the active participation of students, the use of students' natural language and intuitive understandings, the connection of everyday language to the language of mathematics and the development of students as writers of expository writing. Each lesson includes an overview, plans for the mathematics investigation and writing extension, assessment criteria and ideas for promoting discourse. Manipulatives are needed in each lesson.

Cautions:

- There are some references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓					

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078247

Writing Mathematics: Grade 4

Est. WCP Price(s):

\$32.65

Supplier:

Phone: (403) 427-XXXX

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 5)

- Student Textbook
- Teacher's Resource Book

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 227 pages, hardcover
- Teacher's Resource Book - 468 pages, coilbound, and Program Information, 60 pages, softcover



Author(s):

Small, M.; et al.

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem solvers and develop positive attitudes toward mathematics. Problem solving is the central focus of this program and a concept-, language- and activity-based approach is used. Connections are made with other curriculum areas, and some assessment and evaluation are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Book summarizes the concepts covered at each grade level.

• Student Textbook

This student text includes collaborative and independent learning activities and a variety of problem-solving strategy activities. Students are encouraged to communicate and express ideas through talking, writing and using representational forms. Students can make choices, and practise and consolidate their learning through games, problems and activities.

• Teacher's Resource Book

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet, eight developmental and four investigation units.

Comments:

- Content from different strands is integrated through the instructional activities. The teacher manual is essential in developing appropriate concept depth; the student text alone is not sufficient.
- Activities, rather than written materials, are the focus of the program; however, there is systematic development of language and reflective writing.

Cautions:

- Patterns are treated somewhat superficially.
- References to technology are lacking.
- New terms are not well introduced and defined.
- The resource does not contain a glossary.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright:

1997

1997

Components:

- Student Textbook
- Teacher's Resource Book

Est. WCP Price(s):

\$22.60

\$185.40

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics: Grade 5

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 288 pages, hardcover
- Teacher's Guide & Journal - 464 pages, coilbound; Solutions Manual - 78 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition) - 178 pages, softcover each
- Teacher Support Package - 107 pages, softcover
- Technology Package - 32 pages, softcover, two 3.5" program discs
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover

Author(s):

Wortzman, R.; et al.



Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.

• Teacher's Guide & Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and technology centres, some of which use commercial software.

• Solutions Manual

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• Extra Practice and Testing Masters (Student's Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw; paint and database environments. Exploration centres file disks are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook (Revised Ed.)

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher material but not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

System Requirements:

- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 486/50 MHz, 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Cautions:

- Mixed numbers and stem-and-leaf plots are extraneous to Grade 5.
- Outcomes related to the measurement of mass and time need to be supplemented.
- Outcomes related to 3-D drawings need to be supplemented.
- Ordered pairs, such as (4,3), are introduced in the context of graphing patterns.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1997	0201552728
1997	0201552736 (Set)
1997	0201656728 (Set)
1997	0201552744
1997	0201898454
1997	0201696061
1997	0201696010

Components:

• Student Book	\$21.95
• Teacher's Guide & Journal; Solutions Manual	\$99.95 (Set)
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	\$39.95 (Set)
• Teacher Support Package	\$39.95
• Technology Package	\$42.95
• Problem of the Week	\$39.95
• Professional Handbook (Revised Ed.)	\$19.95

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Addison-Wesley's Real World Math

- Adventures in Flight (Macintosh School Version)
- Adventures in Flight (PC School Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: 68 pages, binder and one CD-ROM
- Windows Version: 68 pages, binder and one CD-ROM



Author(s):

Seidman, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓		✓		

Annotation:

This CD-ROM, and accompanying teacher resource binder, is an open-ended program supporting several mathematical concepts. Using an airport setting, students are free to explore demonstrations and solve problems related to five areas of airport operation. They are encouraged to practise communication and reasoning skills as they discover how mathematics is used in a variety of flight-related careers. Graphics, photos, sound effects and animation, in an interactive design, encourage understanding. Student-selected problems reinforce and extend learning. Each "flight log" challenges students to move to higher levels. Teachers can track student progress and access their writing responses. Blackline masters for activity cards, related information and paper plane models are included.

Comments:

- Students must work through lower levels before moving to higher levels.

System Requirements:

- Macintosh: LC III or higher, 13" colour monitor set at 256 colors (8 bit), minimum 4 MB RAM (5 MB or more recommended), System 6.0.7 or higher, Virtual Memory must be turned on, printer recommended.
- Windows 3.1: 386DX/50 MHz or higher, 4 MB RAM (8 MB recommended), Super VGA (640 x 480, 256 colours), "Arial" TrueType font, mouse, SoundBlaster compatible sound card, CD-Audio and Sound drivers compatible with MPC standards, speakers, printer recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, Super VGA (640 x 480, 256 colours), "Arial" TrueType font, mouse, SoundBlaster compatible sound card, CD-Audio and Sound drivers compatible with MPC standards, speakers, printer recommended.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 0201822016

1995 0201829754

Components:

- Adventures in Flight (Macintosh School Version)
- Adventures in Flight (PC School Version)

Est. WCP Price(s):

\$73.72

\$73.72

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Fraction Blocks: Grades 5-8

(Ages 11-14)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

169 pages, binder

Author(s):

Glanfield, F.; Pallos-Haden, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1995

Fraction Blocks: Grades 5-8 (Ages 11-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This portfolio resource presents a series of problem-solving activities using 5x5 pin geoboards. Thirty laminated activity cards focus on squares, triangles, rectangles and other polygons, perimeter and area, motion geometry, symmetry and fractions. The resource supports cooperative learning and journal writing. Teaching notes and selected answers are provided, along with an assessment organizer that includes tracking activities, student conference organizers, self-assessment instruments, generic organizers and journal suggestions.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

16 laminated activity cards, 32 worksheets, one activity booklet

Author(s):

Lashmar, P.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓		✓		

Publisher: Tree House Press Inc.

Distributor: Spectrum Educational Supplies
125 Mary Street
AURORA ON L4G 1G3

Phone: (800) 668-0600

Fax: (905) 727-6265

Copyright: ISBN:

1994 1895165644

The Geoboard Portfolio (Grades 4-6)

Est. WCP Price(s):

\$31.15

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:

1996

1996

Components:

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Est. WCP Price(s):

\$89.95

\$89.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Intermediate Probability Jobcards

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

Laminated Notes to the Teacher card, one solution card, one spinners card and 20 activity cards



Author(s):

Hoogeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This set of 20 activity cards poses questions about the probability of something occurring, then follows up with hands-on experiments in which students can make predictions, gather data, record and display data in a variety of ways (charts, tables, lists, graphs) and draw conclusions. The jobcards include games, in which students use coins, spinners, dice and cubes. The activities are designed to help students develop an intuitive understanding of equal and unequal chances of events occurring and decide whether or not games are fair or unfair. Jobcards may be used in individual mathematics projects, small cooperative learning group work or in learning centres. Teacher notes, brief descriptions of the activities, solutions and four spinners are included.

Cautions:

- American coins are pictured in some activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 156107103X

Intermediate Probability Jobcards

Est. WCP Price(s):

\$24.48

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11)
Active Learning

Authorization Status:

Support

WCP Category:
 Depth Resource

Physical Characteristics:
 193 pages, binder

Author(s):
 Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:
 1993

Kids 'n' Calculators: How to Use the Calculator
 as a Teaching Tool: Grades K-6 (Ages 5-11)

Est. WCP Price(s):

\$31.46

Supplier: LRI

Phone: (403) 427-5771

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 5-6

- Math Discoveries about Data & Probability with Manipulatives: Grades 5-6
- Math Discoveries about Fractions & Decimals with Manipulatives: Grades 5-6
- Math Discoveries about Geometry with Manipulatives: Grades 5-6
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 5-6
- Math Discoveries about Patterns & Functions with Manipulatives: Grades 5-6

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Data & Probability - 54 pages, softcover
- Fractions & Decimals - 54 pages, softcover
- Geometry - 54 pages, softcover
- Numbers & Operations - 54 pages, softcover
- Patterns & Functions - 54 pages, softcover



Author(s):

Callahan, R. (Numbers & Operations)
Knipe, S. (Patterns & Functions)
Maxwell, T. (Fractions & Decimals)
Sammons, K.; Kobert, B. (Data & Probability)
Wells, A. (Geometry)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1564511820
1996 1564511901
1996 1564511693
1996 1564511936
1996 1564511871

Components:

- Math Discoveries about Data & Probability with Manipulatives: Grades 5-6
- Math Discoveries about Fractions & Decimals with Manipulatives: Grades 5-6
- Math Discoveries about Geometry with Manipulatives: Grades 5-6
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 5-6
- Math Discoveries about Patterns & Functions with Manipulatives: Grades 5-6

Est. WCP Price(s):

\$11.60
\$11.60
\$11.60
\$11.60
\$11.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Tools (Windows Version

1.5)

Math Tools

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price:

\$58.94

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathville Mindway: Math Problem Solving: Ages 8-12 (Macintosh / Windows Version 1.0)

Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Annotation:

Mathville Mindway is a virtual midway where traditional games of skill and chance are transformed into mathematics activities. There are eight games on the Mindway and students are free to explore any of the games and to choose difficulty levels within each game. Students use problem solving skills related to the four strands of the mathematics program. The activities are engaging and have visual appeal for students.

Comments:

- Each of the games has a different grade placement; a match between grade and game is not provided.

System Requirements:

- Macintosh: System 7 or higher, 8 MB RAM, 640x480 256 colour monitor, CD drive, sound card.
- Windows 3.1: 486/50 MHz, 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.
- Windows 95: 486/66 MHz (Pentium 100 MHz recommended), 8 MB RAM, SVGA 640x480 256 colour monitor, CD drive, sound card.

Cautions:

- In the Magic Doors game, the doors close very quickly and there may not be sufficient time for students to process information.
- This resource could be problematic for students with poor hand-eye coordination.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright:

1996

Mathville Mindway: Math Problem Solving:
Ages 8-12 (Macintosh / Windows Version 1.0)

Est. WCP Price(s):

\$56.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Measure It: Grades 4-6 (Ages 9-11)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

150 pages, binder

Author(s):

Connely, R.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described. Length units used are kilometres, metres, centimetres and millimetres. Area units used are hectares and square kilometres, with some activities involving the use of a formula. Mass units are kilograms and grams. Capacity units are litres and millilitres.

Comments:

- Money, circumference and time are not addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

Measure It: Grades 4-6 (Ages 9-11)

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5777

Fax: (403) 422-9777

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mental Math in the Middle
Grades: Blackline Masters

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

121 pages, softcover

Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource presents strategies for teaching mental mathematics. It focuses on more difficult mental calculations with whole numbers. Students learn such techniques as searching for compatibles, tack on trailing zeros and front end multiplying. Thirty-six lessons are organized in four units: The Memory of a Mentalmathlete; Doing Several Things at Once; Complicated Mental Calculations; An Interesting Number Pattern. Each lesson contains an introductory page to the new mental mathematics strategy, a power-builder page, with two sets of practice problems, and a review page. There is a progress test, with suggestions for administration, at the end of each unit. A cumulative test designed to be used as a pre-test and post-test and answer keys for all practice sets and tests are also provided.

Cautions:

- Imperial Measure is used occasionally.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987

0866513124

Mental Math in the Middle Grades: Blackline Masters

Est. WCP Price(s):

\$17.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:

1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and
Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User)

\$272.00 (Lab 10-Pack)

\$408.00 (Network/Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 4-6 (Ages 9-11)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

200 pages, binder

Author(s):

Cross, M.; Hulland, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource comprises a sequenced set of problem-solving activities that focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasized and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

- Appropriate activities need to be selected for specific grade levels.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

Est. WCP Price(s):

101 Winning Ways with Base 10: Activities for
Grades 4-6 (Ages 9-11)

\$31.46

Supplier:

LRI

Phone: (403) 427-5771

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Problem Solving: What You Do
When You Don't Know What To
Do (Grade 4-9)**
Active Learning

Authorization Status:

Support

WCP Category:
Depth Resource

Physical Characteristics:
121 pages, binder

Author(s):
Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Est. WCP Price(s):

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Puzzling World of Tangrams and Pentominoes: Grades 3-9 (Ages 8-14) *Active Learning*

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

187 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓			

Annotation:

This resource contains a variety of activities, using tangrams and pentominoes, that address some of the learning outcomes in the Shape and Space strand. Through the blackline master puzzles, students develop spatial visualization and problem-solving strategies that relate to such concepts as transformations, angles, symmetry, congruence and similarity. Evaluation methods, sample solutions and record sheets are provided.

Comments:

- Most activities address the outcomes at Grade 5.

Cautions:

- Some learning outcomes, such as symmetry, are implied but not explicitly explained or used in the construction of solutions or strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1994

The Puzzling World of Tangrams and
Pentominoes: Grades 3-9 (Ages 8-14)

Est. WCP Price(s):

\$31.46

Supplier:

LRD

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Solve It

- Geometry and Measurement: Measuring Volume
- Problem Solving: Guess-Check-Revise
- Mental Computation: Using Mental Computation for Multiplication
- Problem Solving: Drawing and Interpreting Tables and Diagrams
- Measurement: Precision and Estimation
- Problem Solving: Solving a Simpler Problem
- Estimation: Reasonableness of Answers
- Estimation: Estimation Strategies for Multiplication
- A Teacher's Guide to Solve It

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Geometry and Measurement: Measuring Volume - One 15-minute videocassette
- Problem Solving: Guess-Check-Revise - One 15-minute videocassette
- Mental Computation: Using Mental Computation for Multiplication - One 15-minute videocassette
- Problem Solving: Drawing and Interpreting Tables and Diagrams - One 15-minute videocassette
- Measurement: Precision and Estimation - One 15-minute videocassette
- Problem Solving: Solving a Simpler Problem - One 15-minute videocassette
- Estimation: Reasonableness of Answers - One 15-minute videocassette
- Estimation: Estimation Strategies for Multiplication - One 15-minute videocassette
- A Teacher's Guide to Solve It - 64 pages, softcover



Annotation:

• Geometry and Measurement: Measuring Volume

This video focuses on two methods to measure volume: by filling an object and counting or measuring the number of volume units necessary, and by using a formula. The program demonstrates effective use of nonstandard units and some SI units. A geologist explains some of the problems caused by the rising waters of the Great Salt Lake.

• Problem Solving: Guess - Check - Revise

This video models how this strategy is used in several situations that might be meaningful to students, such as moving furniture, connecting a VCR and solving a number problem. The use of this strategy in long division is shown. A project planner at the Jet Propulsion Laboratory in California explains how this strategy was applied in a systematic way throughout the Voyager space missions.

• Mental Computation: Using Mental Computation for Multiplication

This video shows how mental computation strategies can be used to make purchases. A professional caterer demonstrates how she uses mental computation to estimate the amount of food to buy and to adjust recipes to accommodate larger groups.

• Problem Solving: Drawing and Interpreting Tables and Diagrams

This video shows how tables help in organizing information and how diagrams help in visualizing information. Using the context of photography, students in the video make a table to help them understand how aperture and shutter speed are related. An architect, in Salt Lake City, explains how diagrams are used to simplify a complex task.

• Measurement: Precision and Estimation

This video effectively demonstrates that all measurement is estimation, and stresses the importance of choosing the most appropriate instrument. A ceramics manufacturer shows the sophisticated measuring instruments used throughout the production process.

• Problem Solving: Solving a Simpler Problem

Students show a simpler way to work with large numbers. They look for patterns to solve a more complex problem, and they work backward, step by step, to decode a puzzle. An astronomer discusses how he deals with very large numbers every day when measuring distances between planets and stars.

• Estimation: Reasonableness of Answers

This video focuses on estimation as a mathematical process. Students are shown that the "correct" answer is not always reasonable and that it is necessary to think about the reality of the situation behind a problem in order to formulate a sensible answer. A paediatrician explains how she uses similar skills to diagnose young patients.

• Estimation: Estimation Strategies for Multiplication

This video shows examples of different strategies (rounding, betweenness, and front digit) for estimating products of two multi digit numbers. A fire attack chief talks of ways estimation of size, speed, and direction is used when fighting forest fires.

• A Teacher's Guide to Solve It

This guide provides the information needed to focus students' attention as they watch the videos. Each video has an accompanying lesson that summarizes the purpose and content of the program and provides questions and follow-up activities. Student work sheets and answer keys are included.

Comments:

- These videos are part of a series that was produced in 1987. Some of the example clips are dated, but the main instructional segments remain relevant and accurate.
- The teacher's guide is also approved for Grade 6.

Cautions:

- All real-life examples use American contexts.
- Imperial Measure is sometimes used.
- In the video *Measurement: Precision and Estimation* a girl is shown raising her fist towards her companion.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Continued

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602
Fax: (604) 530-2603

Copyright:
1987

1987

1987

1987

1987

1987

1987

1987

1987

Components:

- Geometry and Measurement: Measuring Volume
- Problem Solving: Guess-Check-Revise
- Mental Computation: Using Mental Computation for Multiplication
- Problem Solving: Drawing and Interpreting Tables and Diagrams
- Measurement: Precision and Estimation
- Problem Solving: Solving a Simpler Problem
- Estimation: Reasonableness of Answers
- Estimation: Estimation Strategies for Multiplication
- A Teacher's Guide to Solve It

Est. WCP (s):
\$50.80 (Eight Titles and Print)
\$20.25 (Single Title and Print)

Supplier: ACCESS the Education Station

Phone: (403) 440-7777 (800) 352-8293

Fax: (403) 440-8899

Internet: <http://www.ccinet.ab.ca/access>



Tesselmania

- Tesselmania (Macintosh Version)
- Tesselmania (Windows Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - one 3.5" disc, 84 page manual
- Windows Version - one 3.5" disc, 84 page manual



Annotation:

This software complements and extends the traditional process of cutting and pasting to create tessellations. It provides an opportunity for students to create complex tessellations electronically by modifying outlines and adding colourful interior details using the tool box. Animated sequences show how tessellations are created. Tessellations can be saved and printed. The teacher resource binder provides a sequence of suggested lesson plans for developing the connections between mathematics and art by using the transformational geometry concepts of translating, tessellating, rotating and reflecting.

Comments:

- Most activities address the outcomes at Grade 5.
- The program is qualitative, so it does not allow the use of numbers and coordinates.

System Requirements:

- Macintosh: Macintosh LC or later 68020 or higher CPU capable of reading high-density disks (or with SuperDrive), colour display recommended, System 6.0.7 or later, 2MB of RAM, hard drive, 32 bit Quick Draw, printer (optional).
- Windows 3.1: 386/33 MHz (486 recommended), 4 MB RAM, hard drive with 5 MB of free disc space, printer (optional).
- Windows 95: 486/50 MHz, 8 MB RAM, hard drive with 20 MB of free disc space, printer (optional).

Audience: General / Gifted

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: MECC

Distributor: Software Plus
#1 - 12760 Bathgate Way
RICHMOND BC V6V 1Z4

Phone: (800) 663-7731
Fax: (604) 273-6534

Copyright: ISBN:

1995 0792907760
1995 0792908961

Components:

- Tesselmania (Macintosh Version)
- Tesselmania (Windows Version)

Est. WCP Price(s):

\$49.95
\$49.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**The World's Most Popular
Puzzles and Problems**
Active Learning: Grades 5 - 9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

161 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This collection of activities is designed to enhance and motivate logical thinking, improve problem-solving strategies and explore the history of games. Ancient puzzles, such as tangrams, dominoes, tower of Hanoi and Xs and Os are combined with pentominoes, Nim, toothpick geometries, number puzzles and patterns. The resource contains problem-solving and evaluation strategies for teachers and students. Blackline masters and answers are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓				✓			✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The World's Most Popular Puzzles and Problems

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**About Teaching Mathematics: A
K-8 Resource**

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price:

\$44.10

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover

Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Constructing Ideas: Grades 3-6

- Constructing Ideas About Large Numbers: Grades 3-6
- Constructing Ideas About Multiplication and Division: Grades 3-6
- Constructing Ideas About Fractions: Grades 3-6

Annotation:

This set of teacher resources focuses on large numbers, multiplication and division, and fractions. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Cautions:

- The resource on large numbers uses Imperial Measure.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Large Numbers - 104 pages, coilbound
- Multiplication and Division - 104 pages, coilbound
- Fractions - 104 pages, coilbound



Author(s):

Brodie, J.P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078093

1995 1561078085

1995 1561078107

Components:

- Constructing Ideas About Large Numbers: Grades 3-6 \$28.10
- Constructing Ideas About Multiplication and Division: Grades 3-6 \$28.10
- Constructing Ideas About Fractions: Grades 3-6 \$28.10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Cooperative Problem Solving

- Cooperative Problem Solving with Base Ten Blocks
- Cooperative Problem Solving with Calculators
- Cooperative Problem Solving with Pattern Blocks
- Cooperative Problem Solving with Tangrams
- Cooperative Problem Solving with Attribute Blocks

Annotation:

This set of five binders focuses on cooperative problem solving using base ten blocks, calculators, pattern blocks, tangrams and attribute blocks. Problems are designed to be solved by small groups of students working together in a cooperative learning situation. Each binder contains information on cooperative learning strategies, teaching suggestions and blackline master activity cards for each problem, along with recording sheets. Sample solutions are included. There are 80 problems in each binder, with the exception of the calculators binder which has 72 problems.

Cautions:

- Imperial Measure is used in the calculators binder.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks, 84 pages, binder
- Calculators, 86 pages, binder
- Pattern Blocks, 87 pages, binder
- Tangrams, 87 pages, binder
- Attribute Blocks, 90 pages, binder



Author(s):

Goodnow, J.; Hooegeboom, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓				

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 1561070834
1991 1561071781
1991 0884887316
1991 0884887324
1991 0884887480

Components:

• Cooperative Problem Solving with Base Ten Blocks \$31.90
• Cooperative Problem Solving with Calculators \$33.40
• Cooperative Problem Solving with Pattern Blocks \$31.90
• Cooperative Problem Solving with Tangrams \$31.90
• Cooperative Problem Solving with Attribute Blocks \$31.90

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab>

Curriculum and Evaluation Standards for School Mathematics: Fifth Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

32 pages, softcover



Author(s):

Burton, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533151

Curriculum and Evaluation Standards for School Mathematics: Fifth Grade Book

Est. WCP Price(s):

\$15.75

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Dealing with Data and Chance

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover



Author(s):

Zawajewski, J.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This resource provides a variety of data management activities that relate to data gathering, communication, experiments, simulations, writing survey questions, cause and effect, and justifying different ways to display data. Sample lessons, suggestions for evaluation, and blackline masters are included.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533216

Dealing with Data and Chance

Est. WCP Price(s):

\$21.50

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Phone: (703) 620-9840

Fax: (703) 476-2970

Developing Number Sense in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

56 pages, softcover



Author(s):

Reys, B.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This resource provides activities for students to develop number sense, including meaning of numbers, relationship and magnitude of numbers, relative effect of operating on numbers, and referents for measuring. Communication is emphasized, and teaching suggestions, evaluation ideas, and blackline masters are provided.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533224

Developing Number Sense in the Middle Grades

Est. WCP Price(s):

\$15.05

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Phone: (703) 620-9840

Fax: (703) 476-2970

**Diagnostic Mathematics Program,
Division 2 (includes Numeration,
Operations and Properties, Measurement,
Geometry and Problem Solving)**
Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 420 pages, coilbound
- Operations and Properties - 352 pages, coilbound
- Measurement - 214 pages, coilbound
- Geometry - 224 pages, coilbound
- Problem Solving - 332 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre
(LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 2
(includes Numeration, Operations and
Properties, Measurement, Geometry and
Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Geometry in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

88 pages, softcover

Author(s):

Geddes, D.; et al.

Annotation:

This resource provides activities for students to develop spatial sense by using physical models to discover, visualize and represent concepts and properties of geometric figures in the physical world. The activities focus on two- and three-dimensional geometry concepts, relationships among properties of shapes including angle sums, transformation geometry and enrichment topics. Sample lessons, evaluation ideas and blackline masters are included.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533232

Geometry in the Middle Grades

Est. WCP Price(s):

\$21.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

41 pages, softcover

Author(s):

Colton, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Annotation:

This resource focuses on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzles and games, using pattern blocks, base ten blocks, fraction circles, rainbow cubes and geoboards are included. Activities can be done in pairs or groups and can be adapted to fit different student abilities and interests. Active involvement by students in learning mathematics is promoted.

Cautions:

- There are several activities that do not address Grade 5 outcomes in the Protocol Framework, including operations on fractions and integers.
- The resource contains references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 156107909X

Just for Grade Five

Est. WCP Price(s):

\$13.15

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Intermediate)

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks - 41 pages, softcover
- Fraction Circles - 42 pages, softcover
- Geoboards - 44 pages, softcover
- Pattern Blocks - 44 pages, softcover
- Rainbow Cubes - 42 pages, softcover
- Tangrams - 44 pages, softcover

Author(s):

Alexander, C. (Fraction Circles; Tangrams)
Colton, R. (Base Ten Blocks)
O'Donnell, C. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Annotation:

These resources focus on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzlers and games, using a variety of manipulatives are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted for different student abilities and interests.

Cautions:

- Imperial Measure is used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996	1561079006
1996	1561079014
1996	1561079049
1996	1561078999
1996	1561079022
1996	1561079030

Components:

• Just for Base Ten Blocks (Intermediate)	\$13.15
• Just for Fraction Circles (Intermediate)	\$13.15
• Just for Geoboards (Intermediate)	\$13.15
• Just for Pattern Blocks (Intermediate)	\$13.15
• Just for Rainbow Cubes (Intermediate)	\$13.15
• Just for Tangrams (Intermediate)	\$13.15

Est. Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide, 48 pages, softcover, in a cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts 1-3

Est. WCP Price(s):

\$327

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$327

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover



Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing

1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Patterns and Functions

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover

Author(s):

Phillips, E.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533240

Patterns and Functions

Est. WCP Price(s):

\$18.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Problem Solver 5: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

142 pages, binder

Author(s):

Moretti, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 0884885852

The Problem Solver 5: Activities for Learning Problem-Solving Strategies

Est. WCP Price:

\$4

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step, problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Forty-eight teaching problems with recommended strategies are presented. The second section presents 72 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Cautions:

• Imperial Measure is used in some problems.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover



Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Phone: (703) 620-9840

Fax: (703) 476-2970

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Puddle Questions: Assessing Mathematical Thinking: Grade 5 Puddle Questions

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

96 pages, coilbound



Author(s):

Westley, J.

Annotation:

This teacher resource is designed to assess students' mathematical thinking, reasoning and understanding through problem-solving activities that are authentic and open-ended. Eight investigations focus on different mathematical concepts and cover all strands. Teacher support includes directions, suggested methods of scoring, holistic scoring rubrics for each problem and ways to extend student learning. Samples of student work, representing low, medium, high and excellent responses, and blackline masters are provided.

Comments:

• Blackline masters are in English and Spanish.
• Imperial Measure is used.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Creative Publications

Copyright: ISBN:

1994 156107344X

Puddle Questions: Assessing Mathematical Thinking: Grade 5

Est. WCP Price(s):

\$35.62

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Smart Arithmetic: A Thinking Approach to Computation

• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)

• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)

• Game Mats (Grades 1-3)

• Game Mats (Grades 4-6)

• Dice & Card Games (Grades 1-3)

• Dice & Card Games (Grades 4-6)

• Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:
 1996 1561079170
 1996 1561079189
 1996 0762202483
 1996 0762202491
 1996 0762200189
 1996 0762200170
 1996 1561079871 (video)
 0762201428 (guide)

Components:
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3) \$33.50
 • Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6) \$33.50
 • Game Mats (Grades 1-3) \$21.80
 • Game Mats (Grades 4-6) \$21.80
 • Dice & Card Games (Grades 1-3) \$14.55
 • Dice & Card Games (Grades 4-6) \$14.55
 • Videocassette, Workshop Guide \$58.20

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and Guide)

Est. WCP Price:

\$90.00 (1-4)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Writing Mathematics: Grade 5

Writing Mathematics

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

53 pages, coilbound

Author(s):

Bosse, N.R.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓	✓						✓	✓

Annotation:

This teacher resource offers ten multi-day lessons designed to help children develop oral and written language as tools for learning and communicating mathematical ideas. Lessons are designed to ensure the active participation of students, the use of students' natural language and intuitive understandings, the connection of everyday language to the language of mathematics and the development of students as writers of expository writing. Each lesson includes an overview, plans for the mathematics investigation and writing extension, assessment criteria and ideas for promoting discourse. Manipulatives are needed in each lesson.

Comments:

- Two digit divisors and angle measurement are outcomes for grade 6.

Cautions:

- There are some references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078255

Writing Mathematics: Grade 5

Est. WCP Price(s):

\$32.65

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Interactions (Level 6)

- Student Textbook
- Teacher's Resource Book

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 231 pages, hardcover
- Teacher's Resource Book - 420 pages, coilbound, and Program Information, 60 pages, softcover

Author(s):

Small, M.; et al.

Annotation:

This program is designed to stimulate mathematical thinking, help students be flexible problem solvers and develop positive attitudes toward mathematics. Problem solving is the central focus of this program and a concept-, language- and activity-based approach is used. Connections are made with other curriculum areas, and some assessment and evaluation strategies are integrated with instruction to support diagnostic teaching. This multicomponent resource includes developmental and investigation units for each grade. The strands are integrated in these units, but the scope and sequence chart in the Teacher's Resource Book summarizes the concepts covered at each grade level.

• Student Textbook

This student text includes collaborative and independent learning activities and a variety of problem-solving strategy activities. Students are encouraged to communicate and express ideas through talking, writing and using representational forms. Students can make choices, and practise and consolidate their learning through games, problems and activities.

• Teacher's Resource Book

Activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program are presented. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes a program information booklet, eight developmental and four investigation units.

Comments:

- Content from different strands is integrated through the instructional activities.
- The teacher's resource book is recommended in developing appropriate concept depth; the student text alone may not be sufficient.
- Activities, rather than written materials, are the focus of the program; however, there is systematic development of language and reflective writing.

Cautions:

- References to technology are lacking.
- The Shape and Space strand, in particular 3-D Objects and 2-D Shapes, needs supplementing.
- The resource does not contain a glossary.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright:

1997

1997

Components:

- Student Textbook
- Teacher's Resource Book

Est. WCP Price(s):

\$22.60

\$185.40

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Quest 2000: Exploring Mathematics: Grade 6

- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Ed.)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 297 pages, hardcover
- Teacher's Guide & Journal - 448 pages, coilbound; Solutions Manual - 88 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition) - 180 pages, softcover each
- Teacher Support Package - 101 pages, softcover
- Technology Package - 33 pages, softcover, two 3.5" program discs
- Problem of the Week - 32 transparencies
- Professional Handbook - 96 pages, softcover



Author(s):

Wortzman, R.; et al.

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• Student Book

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practice Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, skill bank and questions for journal writing.

• Teacher's Guide & Journal

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and exploration centres, some of which use commercial software.

• Solutions Manual

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• Extra Practice and Testing Masters (Student's Edition; Teacher's Edition with Answers)

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• Teacher Support Package

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• Technology Package

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing; spreadsheet; draw; paint and database environments. Exploration centres file disks are included.

• Problem of the Week

Transparencies provide an easy way to display each problem of the week. An answer key is included.

• Professional Handbook

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change; Student Behavior and Attitudes; The Teacher's Role; Content; Assessment; Student Diversity; The Role of Technology; Communicating with Parents; Quest 2000 Content Grades K-6; and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher materials and the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

System Requirements:

- Macintosh: System 6.0.5 system or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.
- Windows 95: 485/50 MHz, 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher.

Cautions:

- Use of ordered pairs, such as (5,7), is confined to the graphing of numerical patterns.
- The outcomes related to geometrical designs, symmetry and motion geometry are not addressed.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	✓

Publisher: Addison-Wesley Publishers

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1997 0201552752
1997 0201552760 (Set)
1997 0201656736 (Set)

1997 0201552779
1997 0201898462
1997 020169607X
1997 0201696010

Components:

- Student Book \$21.95
- Teacher's Guide & Journal; Solutions Manual \$99.95 (Set)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) \$39.95 (Set)
- Teacher Support Package \$39.95
- Technology Package \$42.95
- Problem of the Week \$39.95
- Professional Handbook (Revised Ed.) \$19.95

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Fraction Blocks: Grades 5-8 (Ages 11-14) *Active Learning*

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

169 pages, binder

Author(s):

Glanfield, F.; Pallos-Haden, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓									

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Annotation:

This resource provides blackline master activity sheets, student lessons, teaching strategies and assessment ideas for hands-on activities using fraction blocks. Students start with developing an understanding of the concept of a fraction and work through to the operations of addition, subtraction, multiplication and division of fractions. Fraction blocks help students understand the concept of a whole and the relationship of pieces to the whole. Fraction blocks, along with pattern blocks, model the following fractions: halves, quarters, thirds, sixths and twelfths. Students are encouraged to communicate orally and in writing and to reflect on their learning.

Comments:

- Fraction blocks are not included.
- Most activities are at the Grade 7 and Grade 8 levels. Activities at the Grade 5 and Grade 6 levels are limited.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5777

Fax: (403) 422-9771

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Geoboard Portfolio (Grades 4-6) *Spectrum Manipulative Mathematics*

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

16 laminated activity cards, 32 worksheets, one activity booklet

Author(s):

Lashmar, P.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓		✓		

Annotation:

This portfolio resource presents a series of problem-solving activities using 5x5 pin geoboards. Thirty laminated activity cards focus on squares, triangles, rectangles and other polygons, perimeter and area, motion geometry, symmetry and fractions. The resource supports cooperative learning and journal writing. Teaching notes and selected answers are provided, along with an assessment organizer that includes tracking activities, student conference organizers, self-assessment instruments, generic organizers and journal suggestions.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Est. WCP Price(s):

\$31.15

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Publisher: Tree House Press Inc.

Distributor: Spectrum Educational Supplies
125 Mary Street
AURORA ON L4G 1G3

Phone: (800) 668-0600

Fax: (905) 727-6265

Copyright: ISBN:

1994 1895165644

The Geoboard Portfolio (Grades 4-6)



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:

1996
1996

Components:

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Est. WCP Price(s):

\$89.95
\$89.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Intermediate Probability Jobcards

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

Laminated Notes to the Teacher card, one solution card, one spinners card and 20 activity cards



Author(s):

Hoozeboom, S.; Goodnow, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This set of 20 activity cards poses questions about the probability of something occurring, then follows up with hands-on experiments in which students can make predictions, gather data, record and display data in a variety of ways (charts, tables, lists, graphs) and draw conclusions. The jobcards include games, in which students use coins, spinners, dice and cubes. The activities are designed to help students develop an intuitive understanding of equal and unequal chances of events occurring and decide whether or not games are fair or unfair. Jobcards may be used in individual mathematics projects, small cooperative learning group work or in learning centres. Teacher notes, brief descriptions of the activities, solutions and four spinners are included.

Cautions:

- American coins are pictured in some activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 156107103X

Intermediate Probability Jobcards

Est. WCP Price(s):

\$24.48

Supplier: LRI

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11) *Active Learning*

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

193 pages, binder

Author(s):

Morrow, P.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Annotation:

This resource helps teachers to integrate calculator experiences meaningfully into the elementary mathematics program. A series of 174 blackline master activities incorporating the use of the calculator as a learning and problem-solving tool are organized into five topics: Getting To Know the Calculator; Patterns—Counting and Numeration; Problem Solving—Operations, Number and Numeration Situations; Challenges; and Assessment. Teaching and assessment strategies, links to the mathematics strands, information for parents and assessment record sheets are provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1993

Est. WCP Price(s):

Kids 'n' Calculators: How to Use the Calculator
as a Teaching Tool: Grades K-6 (Ages 5-11)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Discoveries: Grades 5-6

- Math Discoveries about Data & Probability with Manipulatives: Grades 5-6
- Math Discoveries about Fractions & Decimals with Manipulatives: Grades 5-6
- Math Discoveries about Geometry with Manipulatives: Grades 5-6
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 5-6
- Math Discoveries about Patterns & Functions with Manipulatives: Grades 5-6

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Data & Probability - 54 pages, softcover
- Fractions & Decimals - 54 pages, softcover
- Geometry - 54 pages, softcover
- Numbers & Operations - 54 pages, softcover
- Patterns & Functions - 54 pages, softcover

Author(s):

Callahan, R. (Numbers & Operations)
Knipe, S. (Patterns & Functions)
Maxwell, T. (Fractions & Decimals)
Sammons, K.; Kobett, B. (Data & Probability)
Wells, A. (Geometry)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Annotation:

These booklets are designed to help students understand concepts through hands-on activities using a variety of manipulatives. Problem solving and group work ideas are provided. Reproducible student explorations and investigations, extensions, teacher notes and sample solutions are included.

Comments:

- The manipulatives are not included with the booklets.
- Calculators are used in some activities.
- These resources are useful as supplementary materials.
- Examples of mental mathematics are adequate and appropriate.

Cautions:

- Imperial Measure is used in a few activities in the fractions and decimals, and geometry booklets.
- American spellings are present.
- The process of estimation will need to be supplemented by the teacher.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Ideal School Supply Company

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1564511820

1996 1564511901

1996 1564511693

1996 1564511936

1996 1564511871

Components:

- Math Discoveries about Data & Probability with Manipulatives: Grades 5-6
- Math Discoveries about Fractions & Decimals with Manipulatives: Grades 5-6
- Math Discoveries about Geometry with Manipulatives: Grades 5-6
- Math Discoveries about Numbers & Operations with Manipulatives: Grades 5-6
- Math Discoveries about Patterns & Functions with Manipulatives: Grades 5-6

Est. WCP Price(s):

\$11.60

\$11.60

\$11.60

\$11.60

\$11.60

Supplier: LRD

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Tools (Windows Version

1.5)

Math Tools

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price(s):

\$58.94

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Mathville VIP (Macintosh /
Windows Version 1.0)**
Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM + User's Guide (5 pages,
softcover)



Annotation:

Mathville VIP is an interactive program integrating a broad range of thinking and mathematical skills with everyday life in the multimedia environment of a virtual village. In Mathville each student becomes a Very Important Person by walking, shopping and playing related to the four strands of the mathematics program. Activities are imaginative and engaging for students. The program is flexible and noncompetitive and supports different levels of student learning. It is suitable for review at the Grades 7 to 8 levels and for enrichment of Grade 6, using problem-solving skills.

Comments:

- This resource is only suitable for independent student use in grade 8 as the use of fraction operations is so prevalent that an independent learner cannot skip and run to reach different parts of the resource.
- This resource can be used for grade 6 and grade 7 with closer teacher direction of the student learning. Most of the decimal applications are at grade 6 conceptually, but the sizes of the numbers and the calculator application make it more suitable for grade 7.

System Requirements:

- Macintosh: System 7 or higher, 640x480 colour monitor, 8MB hard disk space, CD drive.
- Windows 3.1: 486/50 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.
- Windows 95: 486/66 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright: ISBN:

1996 1895691540

Mathville VIP (Macintosh / Windows Version
1.0)

Est. WCP Price:

\$56.00 (Single User)

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (905) 430-5080

Fax: (905) 430-5194

1996 1895691540
1895691559 (Lab
5-Pack)

Mathville VIP (Macintosh / Windows Version
1.0)

\$62.95 (Single User)
\$183.75 (Lab 5-Pack)
\$472.50 (Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Measure It: Grades 4-6 (Ages 9-11)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

150 pages, binder

Author(s):

Connelly, R.; Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1992

Measure It: Grades 4-6 (Ages 9-11)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource comprises a sequenced set of activities to develop skills and concepts in the measurement of length, area, mass, volume, capacity and time. Blackline master activity sheets guide students as they move from nonstandard to standard units, and allow for flexibility of use. Activities support hands-on learning, oral language and student record keeping. Estimation skills are emphasized, and evaluation and recording methods are described. Length units used are kilometres, metres, centimetres and millimetres. Area units used are hectares and square kilometres, with some activities involving the use of a formula. Mass units are kilograms and grams. Capacity units are litres and millilitres.

Comments:

• Money, circumference and time are not addressed.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Mental Math in the Middle
Grades: Blackline Masters

Authorization Status:

Support

WCP Category:

Teacher Resource

Physical Characteristics:

121 pages, softcover

Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 0866513124

Mental Math in the Middle Grades: Blackline Masters

Est. WCP Price(s):

\$17.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource presents strategies for teaching mental mathematics. It focuses on more difficult mental calculations with whole numbers. Students learn such techniques as searching for compatibles, tack on trailing zeros and front end multiplying. Thirty-six lessons are organized in four units: The Memory of a Mentalmathlete; Doing Several Things at Once; Complicated Mental Calculations; An Interesting Number Pattern. Each lesson contains an introductory page to the new mental mathematics strategy, a power-builder page, with two sets of practice problems, and a review page. There is a progress test, with suggestions for administration, at the end of each unit. A cumulative test designed to be used as a pre-test and post-test and answer keys for all practice sets and tests are also provided.

Cautions:

• Imperial Measure is used occasionally.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓



Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Three program discs, User's Guide, 64 pages, coilbound, all in a vinyl case



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓					✓		

Annotation:

This software package and teacher resource binder allows students to work with tiles on the computer screen in order to recognize patterns, practise reasoning and classify and locate objects on a grid. Included are project ideas and twenty-three lesson plans containing worksheets and answers.

Comments:

- The resource binder is very detailed.
- There are a variety of levels within each activity.

System Requirements:

- Macintosh: Macintosh Plus or later, System 6.05 or later.

Cautions:

- The friendly bear character providing feedback to responses may be too juvenile for upper elementary students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Publisher: William K. Bradford Publishing Company, Inc.

Distributor: West World Computers Ltd.
10333 - 170 Street
EDMONTON AB T5P 4V4

Phone: (403) 454-5190; 453-9375

Fax: (403) 454-5248

Copyright: ISBN:
1997 0789832046

Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)

Est. WCP Price(s):

\$68.00 (Single User)
\$272.00 (Lab 10-Pack)
\$408.00 (Network/Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



101 Winning Ways with Base 10: Activities for Grades 4-6 (Ages 9-11)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

200 pages, binder

Author(s):

Cross, M.; Hulland, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Annotation:

This resource comprises a sequenced set of problem-solving activities that focus on base ten materials. Students develop an understanding of counting, estimating, place value, regrouping and decimals through the use of blackline master activity sheets. The resource supports active learning, oral language and student record keeping. Estimation skills are emphasized and activities encompass outcomes from more than one strand. Evaluation and recording methods are described.

Comments:

- Appropriate activities need to be selected for specific grade levels.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1989

Est. WCP Price(s):

101 Winning Ways with Base 10: Activities for
Grades 4-6 (Ages 9-11)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

121 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Est. WCP Price(s):

\$31.46

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

Supplier: LRD

Phone: (403) 427-5777

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**The Puzzling World of Tangrams
and Pentominoes: Grades 3-9
(Ages 8-14)**
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

187 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓	✓		

Annotation:

This resource contains a variety of activities, using tangrams and pentominoes, that address some of the learning outcomes in the Shape and Space strand. Through the blackline master puzzles, students develop spatial visualization and problem-solving strategies that relate to such concepts as transformations, angles, symmetry, congruence and similarity. Evaluation methods, sample solutions and record sheets are provided.

Comments:

- Most activities address the outcomes at Grade 5.

Cautions:

- Some learning outcomes, such as symmetry, are implied but not explicitly explained or used in the construction of solutions or strategies.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1994

The Puzzling World of Tangrams and
Pentominoes: Grades 3-9 (Ages 8-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Solve It

- Statistics: Sampling
- A Teacher's Guide to Solve It

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Statistics: Sampling - One 15-minute videocassette
- A Teacher's Guide to Solve It - 64 pages, softcover



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Annotation:

• Statistics: Sampling

Within the context of a Junior High School election campaign for president, the video presents the concept of sampling as a tool for research by examining how a sample group should relate to the larger population being studied. Students learn to question whether a particular sample is representative of the larger population. The director of the Preview House in Hollywood explains how sampling is used to determine the preferences of the U.S. population.

• A Teacher's Guide to Solve It

This guide provides the information needed to focus students' attention as they watch the video. The video has an accompanying lesson that summarizes the purpose and content of the program and provides questions and follow-up activities. Student work sheets and answer keys are included.

Comments:

- This video is part of a series that was produced in 1987. Some of the example clips are dated, but the main instructional segments remain relevant and accurate.
- The teacher's guide is also approved for Grade 5.
- There is no expiry date for this series (duplication rights are in perpetuity).

Cautions:

- All real-life examples use American contexts.
- Imperial Measure is sometimes used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓	✓	✓		✓

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:

1987

1987

Components:

- Statistics: Sampling
- A Teacher's Guide to Solve It

Est. WCP Price(s):

\$20.25 (Video and Print)

Supplier: ACCESS the Education Station

Phone: (403) 440-7777 (800) 352-8293

Fax: (403) 440-8899

Internet: <http://www.ccinet.ab.ca/access>

Tesselmania

- Tesselmania (Macintosh Version)
- Tesselmania (Windows Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - one 3.5" disc, 84 page manual
- Windows Version - one 3.5" disc, 84 page manual



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Annotation:

This software complements and extends the traditional process of cutting and pasting to create tessellations. It provides an opportunity for students to create complex tessellations electronically by modifying outlines and adding colourful interior details using the tool box. Animated sequences show how tessellations are created. Tessellations can be saved and printed. The teacher resource binder provides a sequence of suggested lesson plans for developing the connections between mathematics and art by using the transformational geometry concepts of translating, tessellating, rotating and reflecting.

Comments:

- Most activities address the outcomes at Grade 5.
- The program is qualitative, so it does not allow the use of numbers and coordinates.

System Requirements:

- Macintosh: Macintosh LC or later 68020 or higher CPU) capable of reading high-density disks (or with SuperDrive), colour display recommended, System 6.0.7 or later, 2MB of RAM, hard drive, 32 bit Quick Draw, printer (optional).
- Windows 3.1: 386/33 MHz (486 recommended), 4 MB RAM, hard drive with 5 MB of free disc space, printer (optional).
- Windows 95: 486/50 MHz, 8 MB RAM, hard drive with 20 MB of free disc space, printer (optional).

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: MECC

Distributor: Software Plus
#1 - 12760 Bathgate Way
RICHMOND BC V6V 1Z4

Phone: (800) 663-7731

Fax: (604) 273-6534

Copyright: ISBN:

1995 0792907760

1995 0792908961

Components:

- Tesselmania (Macintosh Version)
- Tesselmania (Windows Version)

Est. WCP Price(s):

\$49.95

\$49.95

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The World's Most Popular Puzzles and Problems Active Learning: Grades 5 - 9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

161 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This collection of activities is designed to enhance and motivate logical thinking, improve problem-solving strategies and explore the history of games. Ancient puzzles, such as tangrams, dominoes, tower of Hanoi and Xs and Os are combined with pentominoes, Nim, toothpick geometries, number puzzles and patterns. The resource contains problem-solving and evaluation strategies for teachers and students. Blackline masters and answers are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓				✓			✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The World's Most Popular Puzzles and Problems

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9756

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Beyond Facts & Flashcards: Exploring Math with Your Kids

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

133 pages, softcover



Author(s):

Mokros, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Annotation:

This resource assists parents in helping their children become successful mathematics learners. It includes a collection of games and activities that are engaging for children, easy to understand and could be a natural part of daily life. Parents learn how the activities relate to mathematics learning, what is reasonable to expect a child to understand, and how to ask questions that elicit and support children's learning. Suggestions for what to look for in a mathematics classroom, frequently asked questions and answers and a list of materials and resources suitable for parent use are provided.

Cautions:

- Imperial Measure is used throughout the resource.

Audience: General / Parents

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083759

Beyond Facts & Flashcards: Exploring Math
with Your Kids

Est. WCP Price(s):

\$19.96

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 3-6

- Constructing Ideas About Large Numbers: Grades 3-6
- Constructing Ideas About Multiplication and Division: Grades 3-6
- Constructing Ideas About Fractions: Grades 3-6

Annotation:

This set of teacher resources focuses on large numbers, multiplication and division, and fractions. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Cautions:

- The resource on large numbers uses Imperial Measure.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Large Numbers - 104 pages, coilbound
- Multiplication and Division - 104 pages, coilbound
- Fractions - 104 pages, coilbound



Author(s):

Brodie, J.P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779
Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078093
1995 1561078085
1995 1561078107

Components:

• Constructing Ideas About Large Numbers: \$28.10
Grades 3-6
• Constructing Ideas About Multiplication and Division: Grades 3-6 \$28.10
• Constructing Ideas About Fractions: Grades 3-6 \$28.10

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 6-8

- Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8
- Constructing Ideas About Geometry: Grades 6-8
- Constructing Ideas About Data Analysis: Grades 6-8

Annotation:

This set of teacher resources focuses on fractions, decimals and percents, geometry and data analysis. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Fractions, Decimals & Percents - 102 pages, coilbound
- Geometry - 104 pages, coilbound
- Data Analysis - 106 pages, coilbound



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓		✓	

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078123

1995 1561078131

1995 1561078115

Components:

- Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8
- Constructing Ideas About Geometry: Grades 6-8
- Constructing Ideas About Data Analysis: Grades 6-8

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca>

Curriculum and Evaluation Standards for School Mathematics: Sixth Grade Book

Addenda Series, Grades K-6

Authorization Status:

Authorized Teaching

Physical Characteristics:

32 pages, softcover



Author(s):

Burton, G.; et al.

Annotation:

This resource supports the NCTM Standards by interpreting and illustrating how a vision can be translated into classroom practice. The *Addenda Series* is a source of ideas for teachers. The underlying themes of problem solving, reasoning, communication and connections are woven throughout the materials, as is the view of assessment as a means of guiding instruction. Activities have been field-tested by teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 087353316X

Curriculum and Evaluation Standards for School Mathematics: Sixth Grade Book

Est. WCP Price(s):

\$16.50

Supplier:

Phone: (403) 427-

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Dealing with Data and Chance

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover

Author(s):

Zawajewski, J.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533216

Dealing with Data and Chance

Est. WCP Price(s):

\$21.50

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource provides a variety of data management activities that relate to data gathering, communication, experiments, simulations, writing survey questions, cause and effect, and justifying different ways to display data. Sample lessons, suggestions for evaluation, and blackline masters are included.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Developing Number Sense in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

56 pages, softcover

Author(s):

Reys, B.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533224

Developing Number Sense in the Middle Grades

Est. WCP Price(s):

\$15.05

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource provides activities for students to develop number sense, including meaning of numbers, relationship and magnitude of numbers, relative effect of operating on numbers, and referents for measuring. Communication is emphasized, and teaching suggestions, evaluation ideas, and blackline masters are provided.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Diagnostic Mathematics Program, Division 2 (includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Diagnostic Mathematics Program

Authorization Status:

Authorized Teaching

Physical Characteristics:

- Numeration - 420 pages, coilbound
- Operations and Properties - 352 pages, coilbound
- Measurement - 214 pages, coilbound
- Geometry - 224 pages, coilbound
- Problem Solving - 332 pages, coilbound



Annotation:

The *Diagnostic Mathematics Program* is designed to help teachers meet the individual needs of students. It is for use by teachers during regular classroom instruction and by other teachers meeting special student needs. The program links evaluation and instruction by providing teachers with evaluation strategies for identifying students' strengths and weaknesses in understanding mathematics. Emphasis is placed on process-oriented activities that focus on the thinking a student does when completing a task, rather than on product-oriented activities that emphasize the mastery of discrete skills, and with instructional strategies that can be used to overcome weaknesses or to build on strengths. Each of the five handbooks for this division contains the evaluation strategies, the keys and criteria charts for these evaluation strategies, and suggested follow-up instructional strategies. Also included in each handbook are the instructions for using the program, the role of manipulatives in the program, the theoretical basis of the program, and the development of the program. The titles of the five handbooks for this division are: Numeration, Operations and Properties, Measurement, Geometry, and Problem Solving.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Cautions:

- The program relates specifically to the Alberta Elementary Mathematics Program of Studies (1982), but the evaluation and instructional strategies will still be useful for some of the outcomes in the Protocol Framework.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Alberta Education

Distributor: Learning Resources Distributing Centre (LRDC)
12360 - 142 Street
EDMONTON AB T5L 4X9

Phone: (403) 427-2767

Fax: (403) 422-9750

Copyright:

1990

Diagnostic Mathematics Program, Division 2
(includes Numeration, Operations and Properties, Measurement, Geometry and Problem Solving)

Est. WCP Price(s):

\$51.55

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Geometry in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

88 pages, softcover

Author(s):

Geddes, D.; et al.

Annotation:

This resource provides activities for students to develop spatial sense by using physical models to discover, visualize and represent concepts and properties of geometric figures in the physical world. The activities focus on two- and three-dimensional geometry concepts, relationships among properties of shapes including angle sums, transformation geometry and enrichment topics. Sample lessons, evaluation ideas and blackline masters are included.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533232

Geometry in the Middle Grades

Est. WCP Price(s):

\$21.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Est. WCP Price(s):

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Grade Six
Just for Series

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

43 pages, softcover

Author(s):

Colton, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Annotation:

This resource focuses on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzlers and games, using pattern blocks, base ten blocks, fraction circles, rainbow cubes and geoboards are included. Activities can be done in pairs or groups and can be adapted to fit different student abilities and interests. Active involvement by students in learning mathematics is promoted.

Cautions:

- Activities on fractions operations and finding the area of triangles are not part of the outcomes for Grade 6 in the Protocol framework.
- This resource contains references to Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079103

Just for Grade Six

Est. WCP Price(s):

\$13.15

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Intermediate)

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks - 41 pages, softcover
- Fraction Circles - 42 pages, softcover
- Geoboards - 44 pages, softcover
- Pattern Blocks - 44 pages, softcover
- Rainbow Cubes - 42 pages, softcover
- Tangrams - 44 pages, softcover

Author(s):

Alexander, C. (Fraction Circles; Tangrams)
Colton, R. (Base Ten Blocks)
O'Donnell, C. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Annotation:

These resources focus on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzles and games, using a variety of manipulatives are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted for different student abilities and interests.

Cautions:

- Imperial Measure is used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079006
1996 1561079014
1996 1561079049
1996 1561078999
1996 1561079022
1996 1561079030

Components:

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Est. Price(s):

\$13.15
\$13.15
\$13.15
\$13.15
\$13.15
\$13.15

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

• Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose

Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Assessing Understanding: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide, 48 pages, softcover, in a cardboard case



Annotation:

This series of three, 20-minute inservice videos models the use of questions that will help teachers assess their students' understanding of mathematical concepts. Interviews with students, ages 7 to 12, focus on such learnings as number sense, place value, estimation skills, computation, problem solving, thinking and reasoning. A discussion guide describes problems used for the individual assessments, presents analysis from the interviews and provides guidelines for teacher discussion. Teachers will be able to use questioning skills in whole class, small group and individual discussions. Also included is background information, as well as frequent questions and answers on assessment.

Audience: General / Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 020187203X

Mathematics: Assessing Understanding: Parts 1-3

Est. WCP Price(s):

\$327

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover



Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

Three videocassettes and one Teacher Discussion Guide - 64 pages, softcover, in a cardboard case



Annotation:

This set of three 30-minute inservice videos focuses on teaching students to value mathematics, solve problems, reason, communicate and increase their confidence in their mathematical abilities. Students from Grade 2 to Grade 6 are shown in problem-solving situations, using manipulatives, diagrams and symbols as they develop an understanding of mathematical concepts. Teachers model teaching and evaluation techniques in whole class and small group activities. The importance of oral and written communication, to support student learning and help teachers assess understanding, is highlighted. Discussion guidelines are provided and questions for teacher discussion and analysis of the lessons are presented.

Audience: General / Teachers / Parents

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Cuisenaire Company of America

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0201871963

Mathematics: Teaching for Understanding:
Grades K-6: Parts 1-3

Est. WCP Price(s):

\$327

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers

26 Prince Andrew Place

P.O. Box 580

DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover



Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

• This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing

1800 Steeles Ave W

CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Patterns and Functions

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover

Author(s):

Phillips, E.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Annotation:

This resource provides a variety of problem solving activities with suggestions for using manipulatives to promote student understanding of patterns. The activities focus on exponents, number theory (primes, Pascal's Triangle, probability), fractions, decimals, perimeter, area, volume and graphing. Many charts and diagrams are included as well as suggestions for evaluation and sample lessons.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Copyright: ISBN:

1991 0873533240

Patterns and Functions

Est. WCP Price(s):

\$18.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Problem Solver 6: Activities for Learning Problem-Solving Strategies

The Problem Solver: Activities for Learning Problem-Solving Strategies

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

142 pages, binder

Author(s):

Moretti, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This step by step program is designed to help students become competent and confident problem solvers. It identifies and sequentially develops a four-step, problem-solving method, combined with ten useful problem-solving strategies. A wide range of reproducible problems are carefully sequenced to systematically expand students' problem-solving abilities. The resource is organized in three sections. The first section describes the four-step method and the ten solution strategies, illustrated by sample problems. Forty-eight teaching learning problems with recommended strategies are presented. The second section presents 72 practice problems for which students must decide on an appropriate problem-solving strategy to use. The third section lists the solutions to every problem in sections 1 and 2, along with notes.

Cautions:

• Imperial Measure is used in some problems.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1987 0884885860

The Problem Solver 6: Activities for Learning Problem-Solving Strategies

Est. WCP Price:

\$47.45

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover



Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Smart Arithmetic: A Thinking Approach to Computation

• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)

• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)

• Game Mats (Grades 1-3)

• Game Mats (Grades 4-6)

• Dice & Card Games (Grades 1-3)

• Dice & Card Games (Grades 4-6)

• Videocassette, Workshop Guide

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Grades 1-3 - 92 pages, coilbound
- Grades 4-6 - 92 pages, coilbound
- Game Mats (Grades 1-3) - 8 dice, 60 multi-colored cubes, 1 decahedron die, 4 Game Mats, 62 Game Cards
- Game Mats (Grades 4-6) - 8 dice, 60 multi-colored cubes, 4 Game Mats, 3 decahedron dice 0-9
- Dice & Card Games (Grades 1-3) - 1 deck of 50 cards, 12 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Dice & Card Games (Grades 4-6) - 1 deck of 50 cards, 20 dice, 1 decahedron die, 4 blank dice with labels, Instruction Guide (16 pages)
- Videocassette - One videocassette, Workshop Guide, 16 pages, softcover



Annotation:

This kit is designed to help students develop number sense and build reliable recall of number facts, and to create a forum for inventing mental computation and estimation strategies. Each of the booklets contains activities for visual thinking, mental mathematics, recall of number facts, and the development of thinking skills to solve problems. The supplementary dice and card games, and the game mats at each level, provide motivating practice in basic facts memorization and mental computation for addition, subtraction, multiplication and division. The video, and an accompanying workshop guide, demonstrate the development of mental computation strategies by students. Primary and intermediate teachers share new experiences and tips for successfully implementing the *Convince Us!* approach to computation.

Comments:

- Manipulatives are not included in the kit.
- The majority of the mathematical content in the video is at grades 4 to 6 and beyond. However, the strategies used are applicable at all grade levels.

Cautions:

- Imperial Measure is used in some activities.

Audience: General / Gifted / LD

Author(s):

Irvine, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Continued

Publisher: Creative Publications
Distributor: Addison-Wesley Publishers
 26 Prince Andrew Place
 P.O. Box 580
 DON MILLS ON M3C 2T8
Phone: (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:		Components:	Est. WCP Price(s):
1996	1561079170	• Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)	\$33.50
1996	1561079189	• Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)	\$33.50
1996	0762202483	• Game Mats (Grades 1-3)	\$21.80
1996	0762202491	• Game Mats (Grades 4-6)	\$21.80
1996	0762200189	• Dice & Card Games (Grades 1-3)	\$14.55
1996	0762200170	• Dice & Card Games (Grades 4-6)	\$14.55
1996	1561079871 (video)	• Videocassette, Workshop Guide	\$58.20
	0762201428 (guide)		

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and Guide)

Est. WCP Price(s):

\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 7)

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 372 pages, hardcover
- Teacher Resource Package (Includes Teacher's Resource Book - 372 pages, coilbound; Professional Assessment Handbook and Teacher's Resource Blackline Masters - about 150 pages, binder)



Author(s):

Elchuk, L.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Annotation:

Interactions provides students with opportunities to develop their mathematical literacy along three dimensions: Number Sense, Spatial Sense, and Problem Solving. These dimensions are presented not as topics but as different perspectives from which to view the learning of mathematics, and are supported by many learning activities. Problem solving is a central focus of the program, and each developmental unit emphasizes a particular problem-solving strategy. Connections between strands and other curricular areas, real-life contexts and applications, the use of technology, and the use and development of natural and mathematical language are emphasized. This multicomponent resource includes developmental and investigation units, and the mathematical content is organized into the following strands: Number; Statistics and Probability; Patterns and Relations; Shape and Space.

• Student Textbook

The text provides core learning activities for developing and applying mathematical concepts. It is organized into 12 units and provides for student choice, skill development activities and problem-solving strategies. Practice and consolidation of learning is built in through games and problems, and assessment activities are included. The student text provides worked examples, solutions and a glossary.

• Teacher Resource Book

This resource accompanies the student book and presents activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes program information, teaching plans for the ten developmental and two investigation units, and answers from the student book.

• Assessment Booklet and Blackline Masters

This resource includes information on assessing mathematics, planning for assessment, specific activities and strategies and recording and reporting assessment. Blackline masters include project assignments with assessment criteria, analytic and holistic scoring guides, teacher and student checklists and home letters.

Comments:

- Manipulatives, such as algebra tiles, integer discs and suitable software, are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:

- Supplementary material on geometrical transformations is necessary.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1996 0132587998

1996 0132588072

Components:

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Est. WCP Price(s):

\$32.86

\$116.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics 7 (Distance Learning Package)

- Learning Facilitator's Manual

- Module 1: Number Theory

- Module 2: Fractions and Decimal Numbers

- Module 3: Ratio and Proportion

- Module 4: Patterns and Relations

- Module 5: Integers

- Module 6: Shape and Space

- Module 7: Statistics and Probability

- Assignment Booklets: Modules 1-7

- Videotape 1: Math Moves: Number Theory; Math Moves: Adding and Subtracting Fractions; Math Moves: Integers

- Videotape 2: Mathmoves: Equations: Solving with One Step; Why We Have Time Zones; Math Ways: Per Cent; Math Vantage: Tessellations

Annotation:

- *Learning Facilitator's Manual*

This manual contains an overview of the program of studies and the learning package and a list of materials, media and equipment required. Suggestions for using the learning package, management strategies, evaluation ideas, support for each module, a final test and answer key are provided.

- *Student Module Booklets*

Each of the seven module booklets follows a systematic design and contains guided activities that instruct students in a relevant, realistic setting. A module overview is followed by sections with activities that develop skill and knowledge around a theme. Activities may include print, audio, video, computer or Internet involvement, extra help and enrichment. A summary focuses on the skills and strategies learned, and an appendix includes a glossary and suggested answers for the self assessment work.

- *Assignment Booklets*

Accompanying each Student Module Booklet is an Assignment Booklet with activities that can be used for both formative and summative assessments.

- *Videotapes*

Some activities require that students watch videos. The videos are included on these two videocassettes.

Comments:

- There is a strong link between content and process.
- There are good links among adding, subtracting and fractions.
- Manipulatives, such as algebra tiles and suitable software, are necessary for using the resources effectively. These are not supplied.

Cautions:

- The adding and subtracting of fractions component of Videotape 1 correlates to Mathematics 8.
- Assessment strategies are somewhat closed-ended.

Audience: General

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Learning Facilitator's Manual - About 120 pages, loose
- Module 1 - 119 pages, coilbound
- Module 2 - 127 pages, coilbound
- Module 3 - 112 pages, coilbound
- Module 4 - 135 pages, coilbound
- Module 5 - 127 pages, coilbound
- Module 6 - 135 pages, coilbound
- Module 7 - 135 pages, coilbound
- Assignment Booklets - 12-19 pages each
- One videocassette, three titles - 29 minutes each.
- One videocassette, four titles - 29 minutes, 12 minutes, 15 minutes, 12 minutes.



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Continued

Publisher: Alberta Distance Learning Centre
Distributor: Learning Resources Distributing Centre
 (LRDC)
 12360 - 142 Street
 EDMONTON AB T5L 4X9
Phone: (403) 427-2767
Fax: (403) 422-9750

Copyright: ISBN:		Components:	Est. WCP Price(s):
1996	0774111046	• Learning Facilitator's Manual	\$60.00
1996	0774111011	• Module 1: Number Theory	\$14.30 (Module + Assignment Booklet)
1996	0774111291	• Module 2: Fractions and Decimal Numbers	\$14.30 (Module + Assignment Booklet)
1996	0774111658	• Module 3: Ratio and Proportion	\$14.30 (Module + Assignment Booklet)
1996	0774112131	• Module 4: Patterns and Relations	\$14.30 (Module + Assignment Booklet)
1996	0774112239	• Module 5: Integers	\$14.30 (Module + Assignment Booklet)
1996	0774112441	• Module 6: Shape and Space	\$14.30 (Module + Assignment Booklet)
1996	0774112549	• Module 7: Statistics and Probability	\$14.30 (Module + Assignment Booklet)
1996		• Assignment Booklets: Modules 1-7	\$14.00
		• Videotape 1: Math Moves: Number Theory; Math Moves: Adding and Subtracting Fractions; Math Moves: Integers	\$30.70
		• Videotape 2: Mathmoves: Equations: Solving with One Step; Why We Have Time Zones; Math Ways: Per Cent; Math Vantage: Tessellations	\$30.70

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750
Internet: <http://ednet.edc.gov.ab.ca/lrdc>



MATHPOWER (Western Ed.)

(Grade 7)

- Student Book
- Blackline Masters
- Teacher's Edition



Authorization Status:

Basic

WCP Category:

Breadth Resource

Physical Characteristics:

- Student Book - 430 pages, hardcover
- Blackline Masters - 156 pages, softcover
- Teacher's Edition - 500 pages, softcover

Author(s):

Knill, G.; et al. (Student Book; Blackline Masters)

Webb, M. (Teacher's Edition)

Annotation:

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The strands are presented in the same order as the Protocol framework and, within that sequence, students are encouraged and challenged to use interrelated concepts and skills. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, technology, and visualization are integrated in examples and activities.

• Student Book

This is organized into twelve chapters that relate to topics from the strands. Each chapter starts with an introductory activity followed by questions and activities that enable students to build, practise, apply and extend learning. Logos indicate estimating, writing, thinking and cooperative group activities. Manipulatives are used and technology suggestions show students how to apply technology, including calculators and computers, to solve problems.

• Blackline Masters

These provide extra practice for each teaching lesson in the text. The two tests for each chapter are appropriate for assessment, practice, or reinforcement. An extension for each chapter further develops the skills included in the text.

• Teacher's Edition

This contains teaching suggestions to introduce concepts, as well as reinforcement, extension, enrichment and assessment strategies. Step-by-step lesson plans accompany the student text. A data bank, answers and a glossary are provided. Alternate chapter checks and assessment masters give variations for evaluation and review. Teaching Edition masters provide materials such as grid and dot paper, number lines, algebra tiles, tangrams, spinners, geometric shapes, and nets.

Comments:

- Manipulatives, such as algebra tiles, integer discs, and suitable software are necessary for using the resource effectively. These are not supplied with the resource.
- The balance between content and process leans very much to content.

Cautions:

- There is insufficient emphasis on estimation and mental mathematics for some students.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: McGraw-Hill Ryerson Ltd.

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1996 0075526476
1996 0075526484
1996 0075526492

Components:

- Student Book
- Blackline Masters
- Teacher's Edition

Est. WCP Price(s):

\$33.00
\$89.25
\$105.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Minds on Math (Level 7)

- Student Book
- Teacher's Resource Book
- Template and Data Disk Package
- Activity Cards with Answer Key

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 551 pages, hardcover
- Teacher's Resource Binder - 12 softcover booklets, binder
- Template and Data Disk Package - Six 3.5" discs, Teacher's Guide, 124 pages, softcover
- Activity Cards with Answer Key - 32 Activity Cards, Answer Key, 8-page pamphlet



Author(s):

Alexander, R.; et al.

Annotation:

This program helps students develop mathematical understanding through problem solving that relates to meaningful real-world contexts. It focuses on major mathematical concepts, such as patterns, relationships, number, shape, change, dimension and uncertainty, that are also a part of other subject areas. A variety of approaches allows students to learn through manipulatives, individual and cooperative activities, discussion and guided examples. Literacy and numeracy are developed side-by-side and frequent opportunities are provided for students to communicate what they learn in a variety of ways. Technology (computer and calculator) and problem solving are integrated throughout the chapters. Links between mathematics and other disciplines are explored.

• Student Book

The text has nine chapters that relate to topics from the strands. Each chapter begins with activities and exercises that allow students to assess their prior knowledge before they explore new concepts. The main instructional sequence consists of three parts. New concepts are presented through discussions, activities, guided examples using manipulatives, and instruction. Students are then involved in both independent and small-group explorations of the topic. Finally, students communicate mathematical thoughts and discoveries through discussion and writing. The student book contains answers, a glossary and an index.

• Teacher's Resource Book

The teacher's resource book consists of twelve booklets. The first booklet provides an overview of the program and its philosophy, along with an exploration of teaching, classroom management and assessment strategies. It also contains masters for ongoing support. Subsequent booklets relate to each unit of work. For each booklet an overview describes the content of the unit and identifies required material. Comprehensive teaching notes correspond to each reduced student book page. Questions set the stage for activities that include core lessons, quests and projects. An assessment section, review exercises and scoring guidelines are included. Blackline masters for re-teaching, classroom management and assessment are provided. The final booklet gives fully worked solutions.

• Template and Data Disk Package

The software package includes a data disk with information in the following databases: baseball, birds of Canada, Canadian agriculture, occupations and TV shows. Spreadsheet files are included on a template disk to help students start many of the computer activities in the student text. The teacher's guide provides information on the technology features and computer activities of the program and includes spreadsheet and database tutorials, and a variety of activities related to the databases. The guide includes teaching notes, chapter references to the student text and answers for the tutorials and database activities.

• Activity Cards with Answer Key

These activity cards offer students the chance to take part in career-based activities and to discover first-hand how professionals use math on a daily basis. The cards are open-ended, with a strong focus on problem solving and higher-order thinking skills, and thus allow students of different ability levels to engage in each activity. Although the cards are not teacher-directed, most students will need to consult with their teacher from time to time. Each card has a primary link to the mathematics of one chapter of *Minds on Math*. Links to related chapters are also noted. Cards can take from one day to one week for students to complete and may require access to a phone and the cooperation of local businesses. Most cards focus on individual work but may also be used with a partner or in a small group. Student responses and calculations can be assessed. An answer key is provided.

Comments:

- Manipulatives such as algebra tiles, integer discs and suitable software are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:

- The copies of the student pages included in the teacher's resource book may be too small for some people to read—less than 25% of the page.
- The software package requires either ClarisWorks or Microsoft Works in order to run.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 0201426803
1997 0201426838
020159722X
1997 0201426870

Components:

- Student Book
- Teacher's Resource Book
- Template and Data Disk Package
- Activity Cards with Answer Key

Est. WCP Price(s):

\$34.92
\$111.25
\$111.25
\$66.75

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Alge-Tiles: Grades 7-11 (Ages 12-16+)
Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

90 pages, binder

Author(s):

LeSage, J.; Scully, J.; Scully, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products

243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Alge-Tiles: Grades 7-11 (Ages 12-16+)

Est. WCP Price(s):

\$31.46

Supplier:

LRDC

Phone: (403) 427-9

Fax: (403) 422-9

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Dealing with Data: Probability and Sampling
Constructing Mathematical Concepts

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

96 pages, hardcover

Author(s):

Montesanto, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
									✓

Publisher: D.C. Heath Canada Ltd.

Distributor: ITP Nelson Canada

1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (416) 752-9100

Fax: (416) 752-9365

Copyright: ISBN:

1996 0669954772

Dealing with Data: Probability and Sampling

Est. WCP Price:

\$17.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>

Annotation:

This resource provides hands-on experiences using algebra tiles to help students develop an understanding of ratios, integers, polynomials, factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

Comments:

- Algebra tiles are not included.
- This resource is primarily for Grade 9, but it can be used in Grade 7 for learning about integers and in Grade 8 for solving equations.

Cautions:

- Some sections of the binder go beyond the outcomes of Grade 9.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Annotation:

This student resource provides a problem-solving step by step approach to probability and sampling. A series of investigations focus on discovering probability, using sample data in decision making, using probability and sampling. Students are encouraged to record their observations and reflect on their learning. Activities are suitable for group and project work. A glossary is provided.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓		



Fraction Blocks: Grades 5-8 (Ages 11-14) Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

169 pages, binder

Author(s):

Glanfield, F.; Pallos-Haden, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This resource provides blackline master activity sheets, student lessons, teaching strategies and assessment ideas for hands-on activities using fraction blocks. Students start with developing an understanding of the concept of a fraction and work through to the operations of addition, subtraction, multiplication and division of fractions. Fraction blocks help students understand the concept of a whole and the relationship of pieces to the whole. Fraction blocks, along with pattern blocks, model the following fractions: halves, quarters, thirds, sixths and twelfths. Students are encouraged to communicate orally and in writing and to reflect on their learning.

Comments:

- Fraction blocks are not included.
- Most activities are at the Grade 7 and Grade 8 levels. Activities at the Grade 5 and Grade 6 levels are limited.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1995

Est. WCP Price(s):

Fraction Blocks: Grades 5-8 (Ages 11-14)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Geoboard Portfolio (Grades 4-6)

Spectrum Manipulative Mathematics

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

16 laminated activity cards, 32 worksheets, one activity booklet



Author(s):

Lashmar, P.; Lessard, P.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓		

Annotation:

This portfolio resource presents a series of problem-solving activities using 5x5 pin geoboards. Thirty laminated activity cards focus on squares, triangles, rectangles and other polygons, perimeter and area, motion geometry, symmetry and fractions. The resource supports cooperative learning and journal writing. Teaching notes and selected answers are provided, along with an assessment organizer that includes tracking activities, student conference organizers, self-assessment instruments, generic organizers and journal suggestions.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓		✓		

Publisher: Tree House Press Inc.

Distributor: Spectrum Educational Supplies
125 Mary Street
AURORA ON L4G 1G3

Phone: (800) 668-0600

Fax: (905) 727-6265

Copyright: ISBN:

1994 1895165644

The Geoboard Portfolio (Grades 4-6)

Est. WCP Price(s):

\$31.15

Supplier: LE

Phone: (403) 427-5

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Geometry Blaster (Macintosh / Windows Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM in plastic case



Annotation:

This software package includes lessons, activities and games, all of which teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate, or a mastery level. The ten main topics explored are points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3D, coordinate geometry, transformational geometry and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

Comments:

- The resource is most useful for Grade 9.
- The games assume knowledge beyond the Grade 7 level.

System Requirements:

- Macintosh: System 7.0 or later, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.

Cautions:

- There is minimal real-life problem solving.
- There are many parts of this resource that are beyond the Grade 9 level.

Audience: General / ESL / Gifted

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Davidson & Associates Inc.

Distributor: Davidson & Associates Inc.
P.O. Box 2961
19840 Pioneer Avenue
TORRANCE CA 90503

Phone: (310) 793-0600, ext. 1291

Fax: (310) 793-0601

Copyright: ISBN:

1996 0784910634

Geometry Blaster (Macintosh / Windows Version)

Est. WCP Price(s):

\$79.95 (School Version)

\$189.95 (Lab Pack)

\$699.95 (Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:

1996
1996

Components:

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Est. WCP Price(s):

\$89.95
\$89.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Intermediate Geoboard

Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

238 pages, binder

Author(s):

Danbrook, C.; Lesage, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This resource is designed to assist teachers in using the large geoboard with Grades 7 to 9 students. It contains teacher notes, student activity pages and follow-up activities on how to use the 10 x 10 pin, 11 x 11 pin and linking geoboards. Topics include shapes, symmetry, similarity, congruency, area, perimeter, Pythagorean theorem, fractions, per cent, Cartesian coordinates and analytic transformation. Blackline masters and answers for the activities are provided.

Comments:

- Geoboards are recommended but blackline masters of dot paper are provided in the appendix.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The Intermediate Geoboard

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Junior High Probability Jobcards

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Laminated Notes to the Teacher card, one solution card, one spinners card and 20 activity cards



Author(s):

Goodnow, J.; Hoozeboom, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
									✓

Annotation:

The set of 20 activity cards poses questions about the probability of something occurring, then follows up with hands-on experiments in which students can make predictions, gather data, record and display data in a variety of ways (charts, tables, lists, graphs) and draw conclusions. Students use coins, spinners, dice and cubes. The cards include games which students play to determine whether the games are fair or unfair. Ideas are also given for students to think and write about. Definitions are given and concepts are introduced sequentially throughout the activities. Jobcards may be used in individual mathematics projects, small cooperative learning group work or in learning centres. Teacher notes, brief descriptions of the activities, solutions and four spinners are included.

Comments:

- The earlier cards are more suited to the outcomes in Grade 7, with the later cards being suited to the outcomes in Grade 8.

Cautions:

- American coins are pictured in some activities.
- Regular dice, icosahedra (20-faced) dice, coins and cubes are not supplied.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 1561071749

Junior High Probability Jobcards

Est. WCP Price(s):

\$24.48

Supplier: LRD

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Tools (Windows Version

1.5)

Math Tools

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price(s):

\$58.94

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Mathville VIP (Macintosh /
Windows Version 1.0)**
Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM + User's Guide (5 pages,
softcover)



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Annotation:

Mathville VIP is an interactive program integrating a broad range of thinking and mathematical skills with everyday life in the multimedia environment of a virtual village. In Mathville each student becomes a Very Important Person by walking, shopping and playing related to the four strands of the mathematics program. Activities are imaginative and engaging for students. The program is flexible and noncompetitive and supports different levels of student learning. It is suitable for review at the Grades 7 to 8 levels and for enrichment of Grade 6, using problem-solving skills.

Comments:

- This resource is only suitable for independent student use in grade 8 as the use of fraction operations is so prevalent that an independent learner cannot skip and run to reach different parts of the resource.
- This resource can be used for grade 6 and grade 7 with closer teacher direction of the student learning. Most of the decimal applications are at grade 6 conceptually, but the sizes of the numbers and the calculator application make it more suitable for grade 7.

System Requirements:

- Macintosh: System 7 or higher, 640x480 colour monitor, 8MB hard disk space, CD drive.
- Windows 3.1: 486/50 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.
- Windows 95: 486/66 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright: ISBN:

1996 1895691540

Mathville VIP (Macintosh / Windows Version 1.0)

Est. WCP Price:

\$56.00 (Single User)

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (905) 430-5080

Fax: (905) 430-5194

1996 1895691540
1895691559 (Lab 5-Pack)

Mathville VIP (Macintosh / Windows Version 1.0)

\$62.95 (Single User)
\$183.75 (Lab 5-Pack)
\$472.50 (Site License)

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



- Numbers and Patterns: Investigating Rate, Ratio, and Proportion
- Numbers and Patterns: Investigating Rate, Ratio, and Proportion: Teacher's Guide
- Constructing Mathematical Concepts

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Numbers and Patterns: Investigating Rate, Ratio and Proportion - 111 pages, hardcover
- Numbers and Patterns: Investigating Rate, Ratio and Proportion: Teacher's Guide - approximately 150 pages, softcover



Author(s):

Montesanto, R., et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Annotation:

This resource provides students with inquiry-based hands-on activities to develop an understanding of numbers and patterns. A series of investigations focus on: Rate; Ratio; Proportion; Using Rate, Ratio, and Proportion. Links are made to other subject areas and students are encouraged to record their observations and reflect on their learning.

• Student Text

Students develop an understanding of rate as a foundation for ratio and proportion and discover how these concepts are used in real-life situations. Activities are suitable for group and project work. A glossary is provided.

• Teacher Guide

This book includes teaching notes and strategies, and step by step lesson plans. Blackline masters and answers are provided. The guide provides strategies for keeping journals, lead-ins for journals and a variety of evaluation tools.

Cautions:

- One use of Imperial Measure in a reference to *Gulliver's Travels* is used in a historical context.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
	✓					✓			

Publisher: D.C. Heath Canada Ltd.

Distributor: ITP Nelson Canada
1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (416) 752-9100

Fax: (416) 752-9365

Copyright: ISBN:

1995 0669954764

1995 0669954802

Components:

• Numbers and Patterns: Investigating Rate, Ratio, and Proportion

• Numbers and Patterns: Investigating Rate, Ratio, and Proportion: Teacher's Guide

Est. WCP Price(s):

\$17.65

\$24.95

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Pre-Algebra Math Blaster
Mystery: The Great Brain
Robbery: Teacher's Edition
(Windows Version)**

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One Windows CD-ROM, manual - 19
pages, softcover



Annotation:

This CD-Rom builds pre-algebra, logical thinking and problem-solving skills. As students explore the mansion and laboratory of Dr. Dabble, they learn to solve word problems using computations, estimates and proportions; compute with whole numbers, fractions, decimals, integers and rational numbers; apply ratios, proportions and percents; translate mathematical expressions; apply order of operation skills; manipulate positive and negative numbers; create mathematical equations; and think logically. The resource has three levels of difficulty and students may choose one of two ways to play: solving the mystery, or playing individual activities. It includes digitized sound effects, music and speech, record-keeping score boards and on-line tips for parents. A four-function calculator is always available on the screen.

Comments:

- Fraction operating sequences correlate to Grade 8 outcomes.

System Requirements:

- Windows 3.1: 486/25 MHz, 4 MB RAM, Windows-compatible sound accessory, VGA or SVGA card (with 640 x 480 resolution), CD drive (double speed or faster), printer (optional).
- Windows 95: 486/50 MHz, 8 MB RAM, Windows-compatible sound accessory, VGA or SVGA card (with 640 x 480 resolution), CD drive (double speed or faster), printer (optional).

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Davidson & Associates Inc.

Distributor: Davidson & Associates Inc.
19840 Pioneer Avenue
Torrance CA 90503

Phone: (800) 545-7677 (310) 793-0600

Fax: (310) 793-0601

Copyright: ISBN:

1994 0784904200

Pre-Algebra Math Blaster Mystery: The Great
Brain Robbery: Teacher's Edition (Windows
Version)

Est. WCP Price(s):

\$79.

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

121 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Statistics Workshop (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 3.5" disc, manual - 66 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Annotation:

Statistics Workshop is a set of computer tools for understanding and exploring fundamental concepts of data analysis. These tools combine the features of interactivity, visualization, and multiple-linked representations to create a laboratory in which students can explore the underlying meaning of abstract statistical concepts and processes. *Statistics Workshop* provides an easy-to-use system for entering, manipulating, and displaying data. The resource indicates the mean, median and mode of the data, as well as quartiles, range and line of best fit, and a variety of statistical measures for each graph. It contains a spreadsheet of flexible size for entering data and sample data sets that can be used for the analysis of data and the manipulation of data points. Support materials include a tutorial, teaching ideas and sample student activities.

System Requirements:

Macintosh: Mac Plus or later (Classic or later recommended), 1 MB RAM.

Cautions:

- This resource goes beyond the outcomes of the Protocol framework in some areas, e.g. best-fit lines and scatter plots at the Grade 9 level.
- Although the software runs on a Mac Plus, screen displays are then inadequate.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Publisher: Sunburst

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 321-7511, Ext. 430

Fax: (416) 293-9009

Copyright:

1991

Statistics Workshop (Macintosh Version)

Est. WCP Price(s):

\$129.95 (Single)

\$259.95 (5-Pack)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Step Up

- Soar with Integers: A Complete Teaching & Learning Resource (Grades 7-9, Ages 12-15)
- Integer Manipulative Kit

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- 416 pages, binder
- Integer Manipulative Kit includes: 25 sets of positive and negative Integer tiles, 25 laminated circle mats, 25 balloon symbols on clear mylar, overhead set (two clear acetates with 60 transparent tiles)



Author(s):

Morrison, H.; Morrison, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Annotation:

This resource comprises a set of activities to develop skills and concepts in addition, subtraction, multiplication, division, ordering, comparing, and order of operations with integers. This program can be used in a step by step approach, a resource to enrich an existing program or a series of pull-out concrete activities and teaching models.

• Teacher's Resource

This resource provides complete detailed lesson plans with focus problems, teaching tips and a variety of individual and group student activities, including problem-solving activities and games and motivational activities. Language development is encouraged through journal assignments and the development of mathematics vocabulary. Suggestions for assessment include checklists, quizzes and self-evaluation ideas. Blackline masters and transparency masters are provided.

• Integer Manipulative Kit

This kit includes 25 sets of positive and negative Integer tiles; 25 laminated circle mats; 25 balloon symbols on clear mylar; overhead set of 2 clear acetates with 60 transparent tiles.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1995

1995

Components:

- Soar with Integers: A Complete Teaching & Learning Resource (Grades 7-9, Ages 12-15)
- Integer Manipulative Kit

Est. WCP Price(s):

\$80.96

\$98.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Triple 'A' Mathematics Program:
Data Management & Probability
Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

249 pages, binder

Author(s):

Birse, J.; Cornwall, R.; Wilson, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This resource is a binder of activities, projects and assessment items for data analysis and probability. Extensive teacher support in terms of suggested teaching strategies, sequencing, and scoring rubrics is provided. Activities include both routine calculation and open-ended projects. Some activities involve critical thinking.

Comments:

- Limited random number tables are provided, but other manipulatives must be provided by the teacher.
- Assessment material consists of discrete items, rather than assessment instruments.

Cautions:

- This resource has no discussion of the best-fit line at the Grade 9 level.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Triple 'A' Mathematics Program: Data
 Management & Probability

Est. WCP Price(s):

\$33.26

Supplier: LRD

Phone: (403) 427-5771

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Understanding Math Series

- Understanding Fractions (Macintosh Version 4.0)
- Understanding Fractions (Windows Version 4.0)
- Understanding Integers (Macintosh Version 3.0)
- Understanding Integers (Windows Version 3.0)
- Understanding Exponents (Macintosh Version 3.0)
- Understanding Exponents (Windows Version 3.0)
- Understanding Algebra (Macintosh Version 2.0)
- Understanding Algebra (Windows Version 2.0)
- Understanding Equations (Macintosh Version 2.0)
- Understanding Equations (Windows Version 2.0)
- Understanding Geometry (Macintosh Version 2.0)
- Understanding Geometry (Windows Version 2.0)
- Understanding Percent (Macintosh Version 1.0)
- Understanding Percent (Windows Version 1.0)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Versions: One 3.5" disc, manual.
- Windows Versions: Two 3.5" discs, manual.



Author(s):

Neufeld, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This software series assists students in developing an understanding of mathematics concepts based on a solid foundation of concrete activities. Topics include fractions, integers, exponents, algebra, equations, coordinate geometry and graphing, and percent. For each topic the program contains concept sections with explanation, example sections, practice sections and cumulative checks. The user is in control through pull-down menus and proceed and go-back buttons. Each program includes a teacher manual.

Comments:

- The balance between product and processes favours process.
- The content delivery is concrete and sequential in its approach.

System Requirements:

- Macintosh: System 6.07, colour monitor, Macintosh II with 2 MB RAM, hard drive; System 7.X, colour monitor, Macintosh II with 4 MB RAM, hard drive.
- Windows 3.1: 386/33 MHz, 4 MB RAM, VGA monitor, hard drive.
- Windows 95: 486/50 MHz, 8 MB RAM, VGA monitor, hard drive.

Cautions:

- Some problems may appear while running the software with only the minimum system requirements listed. Increasing memory partition to 6 MB avoids graphics problems.
- The software ran trouble free on the following:
 - 1) Macintosh: PowerMac 6100/60 or higher, Performa 5200 or higher, system 7.5, 8 MB RAM, provision to change colours on monitor.
 - 2) Windows 3.1 or Windows 95: 486 or higher processor running at 50 MHz or faster, 8 MB RAM.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
		✓	✓		✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓		✓		

Continued

Publisher: Neufeld & Associates
Distributor: Gage Educational Publishing
 164 Commander Boulevard
 SCARBOROUGH ON M1S 3C7
Phone: (800) 667-1115 ; (416) 293-8141
Fax: (416) 293-9009

Copyright: ISBN:	Components:	Est. WCP Price
1996 0969241895 (Guide)	• Understanding Fractions (Macintosh Version 4.0)	\$69.95
1996 0969241895 (Guide)	• Understanding Fractions (Windows Version 4.0)	\$69.95
1996 096964941X (Guide)	• Understanding Integers (Macintosh Version 3.0)	\$69.95
1996 096964941X (Guide)	• Understanding Integers (Windows Version 3.0)	\$69.95
1996 0969649401 (Guide)	• Understanding Exponents (Macintosh Version 3.0)	\$69.95
1996 0969649401 (Guide)	• Understanding Exponents (Windows Version 3.0)	\$69.95
1996 0969649436 (Guide)	• Understanding Algebra (Macintosh Version 2.0)	\$69.95
1996 0969649436 (Guide)	• Understanding Algebra (Windows Version 2.0)	\$69.95
1996 0969649428 (Guide)	• Understanding Equations (Macintosh Version 2.0)	\$69.95
1996 0969649428 (Guide)	• Understanding Equations (Windows Version 2.0)	\$69.95
1996 0969649444 (Guide)	• Understanding Geometry (Macintosh Version 2.0)	\$69.95
1996 0969649444 (Guide)	• Understanding Geometry (Windows Version 2.0)	\$69.95
1996	• Understanding Percent (Macintosh Version 1.0)	\$69.95
1996	• Understanding Percent (Windows Version 1.0)	\$69.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The World's Most Popular Puzzles and Problems Active Learning: Grades 5 - 9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

161 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This collection of activities is designed to enhance and motivate logical thinking, improve problem-solving strategies and explore the history of games. Ancient puzzles, such as tangrams, dominoes, tower of Hanoi and Xs and Os are combined with pentominoes, Nim, toothpick geometries, number puzzles and patterns. The resource contains problem-solving and evaluation strategies for teachers and students. Blackline masters and answers are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓				✓			✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The World's Most Popular Puzzles and Problems

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 6-8

- Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8
- Constructing Ideas About Geometry: Grades 6-8
- Constructing Ideas About Data Analysis: Grades 6-8

Annotation:

This set of teacher resources focuses on fractions, decimals and percents, geometry and data analysis. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Fractions, Decimals & Percents - 102 pages, coilbound
- Geometry - 104 pages, coilbound
- Data Analysis - 106 pages, coilbound



Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓		✓	

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078123

1995 1561078131

1995 1561078115

Components:

• Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8

• Constructing Ideas About Geometry: Grades 6-8

• Constructing Ideas About Data Analysis: Grades 6-8

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Dealing with Data and Chance

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover



Author(s):

Zawajewski, J.; et al.

Annotation:

This resource provides a variety of data management activities that relate to data gathering, communication, experiments, simulations, writing survey questions, cause and effect, and justifying different ways to display data. Sample lessons, suggestions for evaluation, and blackline masters are included.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:

1991 0873533216

Dealing with Data and Chance

Est. WCP Price(s):

\$21.50

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Developing Number Sense in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

56 pages, softcover

Author(s):

Reys, B.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides activities for students to develop number sense, including meaning of numbers, relationship and magnitude of numbers, relative effect of operating on numbers, and referents for measuring. Communication is emphasized, and teaching suggestions, evaluation ideas, and blackline masters are provided.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533224

Developing Number Sense in the Middle Grades

Est. WCP Price(s):

\$15.05

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>

Geometry in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

88 pages, softcover

Author(s):

Geddes, D.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533232

Geometry in the Middle Grades

Est. WCP Price(s):

\$21.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrde>

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource provides activities for students to develop spatial sense by using physical models to discover, visualize and represent concepts and properties of geometric figures in the physical world. The activities focus on two- and three-dimensional geometry concepts, relationships among properties of shapes including angle sums, transformation geometry and enrichment topics. Sample lessons, evaluation ideas and blackline masters are included.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Glencoe Mathematics Professional

- Alternative Assessment in the Mathematics Classroom
- Cooperative Learning in the Mathematics Classroom
- Involving Parents and the Community in the Mathematics Classroom

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Alternative Assessment in the Mathematics Classroom - 58 pages, softcover
- Cooperative Learning in the Mathematics Classroom - 44 pages, softcover
- Involving Parents and the Community in the Mathematics Classroom - 44 pages, softcover



Author(s):

Foster, A. G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

• Alternative Assessment in the Mathematics Classroom

This booklet describes alternative assessment techniques that will help teachers better monitor and measure the performance of students against curriculum standards that emphasize problem solving, communicating, reasoning and connecting. Assessment methods described are performance assessment tasks, observation and questioning, presentations and projects, and portfolios and journals. Documentation and evaluation methods include scoring rubrics, checklists, written comments, and descriptive reports by students and teachers.

• Cooperative Learning in the Mathematics Classroom

This booklet is designed to help teachers provide opportunities for students to work together in problem-solving situations. An overview of cooperative learning is provided along with a description of the roles of team members, ideas for developing social skills, structures to deliver instruction to students, and lesson design. Teacher notes for lessons, a bibliography, and answers are included.

• Involving Parents and the Community in the Mathematics Classroom

This booklet is designed to help teachers communicate with parents about mathematics teaching and learning in their classrooms. Ways of involving parents include suggestions for how parents can help at home and for parent conferences. Twenty-nine take-home activities are suitable for junior and senior high students to work through with their parents. These are accompanied by teaching notes and answers. Ideas for mathematics projects and community involvement are provided.

Cautions:

- Some measurement activities use Imperial Measure.
- Grade level references in "Involving Parents and the Community" do not match the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: McGraw-Hill

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1993 0028245466

1993 0028245458

1993 0028248201

Components:

- Alternative Assessment in the Mathematics Classroom
- Cooperative Learning in the Mathematics Classroom
- Involving Parents and the Community in the Mathematics Classroom

Est. WCP Price(s):

\$21.70

\$21.65

\$19.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10

Active Learning

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Just for Series (Intermediate)

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Base Ten Blocks - 41 pages, softcover
- Fraction Circles - 42 pages, softcover
- Geoboards - 44 pages, softcover
- Pattern Blocks - 44 pages, softcover
- Rainbow Cubes - 42 pages, softcover
- Tangrams - 44 pages, softcover

Author(s):

Alexander, C. (Fraction Circles; Tangrams)
Colton, R. (Base Ten Blocks)
O'Donnell, C. (Geoboards; Pattern Blocks)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Annotation:

These resources focus on the use of manipulatives to explore mathematical concepts. Ideas for lessons, puzzles and games, using a variety of manipulatives are included. Active involvement by students in learning mathematics is promoted. Activities can be done in pairs or groups and can be adapted for different student abilities and interests.

Cautions:

- Imperial Measure is used.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓				✓	✓		

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 1561079006
1996 1561079014
1996 1561079049
1996 1561078999
1996 1561079022
1996 1561079030

Components:

- Just for Base Ten Blocks (Intermediate)
- Just for Fraction Circles (Intermediate)
- Just for Geoboards (Intermediate)
- Just for Pattern Blocks (Intermediate)
- Just for Rainbow Cubes (Intermediate)
- Just for Tangrams (Intermediate)

Est. Price(s):

\$13.15
\$13.15
\$13.15
\$13.15
\$13.15
\$13.15

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

- Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Assessment: Grade 7

- Teacher's Resource Book
- Student's Booklet

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Teacher's Resource Book - 149 pages, softcover
- Student's Booklet - 28 pages, softcover



Author(s):

Flewelling, G.; et.al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Annotation:

• Teacher's Resource Book

This teacher's resource book offers assessment activity sets correlated to specific learning outcomes, rubrics for four levels of performance, performance indicators for each task and sample student responses for each task. Suggestions for implementation and activity blackline masters are included. A set of performance indicators is provided for each of the four performance levels for the activities in both the student booklet and the blackline masters. The resource book also provides sample student responses at level 3 with an indication of the time for a typical student to respond.

• Student Booklet

The student booklet contains interesting and motivating tasks designed to demonstrate student understanding. Activities usually focus on more than one learning outcome. There are five sets of activities, one for each of the following strands: number sense and numeration, measurement, patterning and algebra, data management and probability, and geometry and spatial sense. Each set is divided into subsets, one subset for each outcome in the strand. The activities are designed to assess in seven dimensions: mathematics knowledge and skills, problem solving, reasoning, communication, technology, connections and attitude.

Comments:

- The resource is more suitable for formative, rather than summative assessment. The tasks are very open-ended.
- Samples of student work are given only at level 3, and teachers are expected to recognize work at other levels.

Cautions:

- Some activities require fraction operations and are more appropriate for Grade 8.
- The coding system used for objectives does not correspond to Protocol framework grades or strands.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Gage Educational Publishing

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright: ISBN:

1997 077153373X

1997 0771533705

Components:

- Teacher's Resource Book
- Student's Booklet

Est. Price(s):

\$129.95

\$9.95

Supplier:

LRDC

Phone:

(403) 427-5775

Fax:

(403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This booklet is a collection of examples of assessment techniques that focus on student thinking. Methods of assessment reflect the importance of linking instruction and assessment, and the key role of student self-assessment. Assessment methods include performance assessment, observations, interviews, conferences and questions and mathematics portfolios. Practical ideas for implementing models of assessment are provided.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette



Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier:

Phone: (403) 427-1111

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mental Math in Junior High: Blackline Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

170 pages, softcover

Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Annotation:

This resource presents strategies for teaching mental mathematics to students. It extends early methods, such as finding or making compatible numbers, working from the front-end and dealing with trailing zeros, to more advanced methods of calculating mentally with fractions, decimals and percents, as well as whole numbers. Fifty lessons are organized in five units: Memorizing Pi; The "Teens" Times Table; Left-to-Right Multiplication; Squaring Numbers; Cube Roots. Each lesson contains a lesson page to introduce each new mental mathematics strategy and a power builder page with two sets of practice problems. At the close of each unit there is a review page and progress test. A cumulative test designed to be used as a pre-test and post-test and answer keys for all practice sets and tests are provided.

Cautions:

- Some examples use Imperial Measure and U.S. contexts.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1988 0866514333

Mental Math in Junior High: Blackline Masters

Est. WCP Price(s):

\$17.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Nelson Canadian School
Mathematics Dictionary

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

252 pages, softcover



Author(s):

Fyfield, J.; Blane, D.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This dictionary provides a comprehensive list of mathematical terms. Features include cross-referencing, diagrams, pronunciations, word origins, and guidance on usage.

Cautions:

- The conceptual level of the definitions varies widely. This dictionary is most suitable for use as a teacher resource, but may be used with students, as appropriate.

Audience: General / Teachers

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Nelson

Distributor: Nelson Canada
1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (800) 268-2222

Fax: (800) 430-4445

Copyright: ISBN:

1995 0176048006

The Nelson Canadian School Mathematics
Dictionary

Est. WCP Price(s):

\$10.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Patterns and Functions

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover

Author(s):

Phillips, E.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This resource provides a variety of problem solving activities with suggestions for using manipulatives to promote student understanding of patterns. The activities focus on exponents, number theory (primes, Pascal's Triangle, probability), fractions, decimals, perimeter, area, volume and graphing. Many charts and diagrams are included as well as suggestions for evaluation and sample lessons.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533240

Patterns and Functions

Est. WCP Price(s):

\$18.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrldc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover

Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier:

LRDC

Phone: (403) 427

Fax: (403) 422

Internet: <http://ednet.edc.gov.ab.ca/lrldc>



Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 7

*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

35 pages, coilbound



Author(s):

Hauk, C.M.; Quinn, B.A.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Annotation:

This teacher resource provides assistance for teachers in implementing the Protocol framework. Keyed directly to each Illustrative Example (IE), it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the processes (problem-solving, communication, reasoning, connections, estimation and mental mathematics, technology, and visualization) that are associated with the corresponding Specific Outcomes. For added convenience each page of this resource is cross-referenced to the page where the respective Illustrative Example appears in the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: C. Marie Hauk / Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON AB T6M 1W3

Phone: (403) 487-8841

Fax: (403) 481-9913

Copyright:

1997

Solutions & Extensions for Illustrative Examples
from the Western Canadian Protocol: Grade 7

Est. WCP Price(s):

\$9.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



There's Math in Deviled Eggs (Video and Guide)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 30-minute videocassette, User's
Guide, 20 pages



Annotation:

This 30-minute colour video, with accompanying user guide, depicts young children actively engaged in a wide range of mathematical activities. The video and suggested activities can help teachers prepare students for complex mathematical thinking. The concept of bridging and eight teaching strategies are dramatized and discussed. The video shows a mathematically stimulating environment that incorporates tools and routines to foster mathematical thinking in young children.

Comments:

- The video and guide are suitable for individual viewing or a workshop presentation.
- This resource depicts kindergarten students, but is valuable for intermediate teachers because many of the suggested strategies can be used in an intermediate setting.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓		

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Publisher: Agency for Instructional Technology
(Instructional Media) (AIT)

Distributor: Magic Lantern Communications Ltd.
19949 - 56 Avenue
LANGLEY BC V3A 3Y2

Phone: (800) 263-1818 ; (604) 530-2602

Fax: (604) 530-2603

Copyright:
1993

There's Math in Deviled Eggs (Video and
Guide)

Est. WCP Price:
\$90.00 (1-4 copies)
\$79.00 (5-10 copies)
\$69.00 (11-15 copies)
\$59.00 (16-50 copies)

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 8)

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 384 pages, hardcover
- Teacher Resource Package (Includes Teacher's Resource Book - 383 pages, coilbound; Professional Assessment Handbook and Teacher's Resource Blackline Masters - approximately 150 pages, binder)

Author(s):

Elchuk, L.; et al

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1996 0132588153
1996 0132588234

Components:

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Est. WCP Price(s):

\$32.86
\$116.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

Interactions provides students with opportunities to develop their mathematical literacy along three dimensions: Number Sense, Spatial Sense, and Problem Solving. These dimensions are presented not as topics but as different perspectives from which to view the learning of mathematics, and are supported by many learning activities. Problem solving is a central focus of the program, and each developmental unit emphasizes a particular problem-solving strategy. Connections between strands and other curricular areas, real-life contexts and applications, the use of technology, and the use and development of natural and mathematical language are emphasized. This multicomponent resource includes developmental and investigation units, and the mathematical content is organized into the following strands: Number; Statistics and Probability; Patterns and Relations; Shape and Space.

• Student Textbook

The text provides core learning activities for developing and applying mathematical concepts. It is organized into 12 units and provides for student choice, skill development activities and problem-solving strategies. Practice and consolidation of learning is built in through games and problems, and assessment activities are included. The student text provides worked examples, solutions and a glossary.

• Teacher Resource Book

This resource accompanies the student book and presents activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes program information, teaching plans for the ten developmental and two investigation units, and answers from the student book.

• Assessment Booklet and Blackline Masters

This resource includes information on assessing mathematics, planning for assessment, specific activities and strategies and recording and reporting assessment. Blackline masters include project assignments with assessment criteria, analytic and holistic scoring guides, teacher and student checklists and home letters.

Comments:

- Manipulatives such as algebra tiles, fraction circles, geoboards and suitable software are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:

- Supplementary material on geometrical transformations is necessary.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓



MATHPOWER (Western Ed.) (Grade 8)

- Student Book
- Blackline Masters
- Teacher's Edition

Authorization Status:

Basic

WCP Category:

Breadth Resource

Physical Characteristics:

- Student Book - 408 pages, hardcover
- Blackline Masters - 141 pages, softcover
- Teacher's Edition - 472 pages, softcover

Author(s):

Knill, G.; et al.

Annotation:

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The strands are presented in the same order as the Protocol framework and, within that sequence, students are encouraged and challenged to use interrelated concepts and skills. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, technology, and visualization are integrated in examples and activities.

• Student Book

This is organized into ten chapters that relate to topics from the strands. Each chapter starts with an introductory activity followed by questions and activities that enable students to build, practise, apply and extend learning. Logos indicate estimating, writing, thinking and cooperative group activities. Manipulatives are used and technology suggestions show students how to apply technology, including calculators and computers, to solve problems.

• Blackline Masters

These provide extra practice for each teaching lesson in the text. The two tests for each chapter are appropriate for assessment, practice, or reinforcement. An extension for each chapter further develops the skills included in the text.

• Teacher's Edition

This contains teaching suggestions to introduce concepts, as well as reinforcement, extension, enrichment and assessment strategies. Step-by-step lesson plans accompany the student text. A data bank, answers and a glossary are provided. Alternate chapter checks and assessment masters give variations for evaluation and review. Teaching Edition masters provide materials such as grid and dot paper, number lines, algebra tiles, tangrams, spinners, geometric shapes, and nets.

Comments:

- Manipulatives, such as algebra tiles, fraction circles, linking cubes, geoboards, and suitable software are necessary for using the resource effectively. These are not supplied with the resource.
- The balance between content and process leans very much to content.

Cautions:

- There is excessive emphasis on routine drill in the number strand.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: McGraw-Hill Ryerson Ltd.

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1996 0075526506
1996 0075526514
1996 0075526522

Components:

- Student Book
- Blackline Masters
- Teacher's Edition

Est. WCP Price(s):

\$33.90
\$89.25
\$105.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Minds on Math (Level 8)

- Student Book
- Teacher's Resource Book
- Template and Data Disk Package
- Activity Cards with Answer Key

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 562 pages, hardcover
- Teacher's Resource Book - 12 softcover booklets in binder
- Template and Data Disk Package - Six 3.5" discs, Teacher's Guide, 124 pages, softcover
- Activity Cards with Answer Key - 32 Activity Cards, Answer Key, 8-page pamphlet



Author(s):

Alexander, R.; et al.

Annotation:

This program helps students develop mathematical understanding through problem solving that relates to meaningful real-world contexts. It focuses on major mathematical concepts, such as patterns, relationships, number, shape, change, dimension and uncertainty, that are also a part of other subject areas. A variety of approaches allows students to learn through manipulatives, individual and cooperative activities, discussion and guided examples. Literacy and numeracy are developed side-by-side and frequent opportunities are provided for students to communicate what they learn in a variety of ways. Technology (computer and calculator) and problem solving are integrated throughout the chapters. Links between mathematics and other disciplines are explored.

• Student Book

The text has nine chapters that relate to topics from the strands. Each chapter begins with activities and exercises that allow students to assess their prior knowledge before they explore new concepts. The main instructional sequence consists of three parts. New concepts are presented through discussions, activities, guided examples using manipulatives, and instruction. Students are then involved in both independent and small-group explorations of the topic. Finally, students communicate mathematical thoughts and discoveries through discussion and writing. The student book contains answers, a glossary and an index.

• Teacher's Resource Book

The teacher's resource book consists of twelve booklets. The first booklet provides an overview of the program and its philosophy, along with an exploration of teaching, classroom management and assessment strategies. It also contains masters for ongoing support. Subsequent booklets relate to each unit of work. For each booklet an overview describes the content of the unit and identifies required material. Comprehensive teaching notes correspond to each reduced student book page. Questions set the stage for activities that include core lessons, quests and projects. An assessment section, review exercises and scoring guidelines are included. Blackline masters for re-teaching, classroom management and assessment are provided. The final booklet gives fully worked solutions.

• Template and Data Disk Package

The software package includes a data disk with information in the following databases: box office hits, international prices, mammals of Canada, Olympic Winter Games and time spent. Spreadsheet files are included on a template disk to help students start many of the computer activities in the student text. The teacher's guide provides information on the technology features and computer activities of the program and includes spreadsheet and database tutorials, and a variety of activities related to the databases. The guide includes teaching notes, chapter references to the student text and answers for the tutorials and database activities.

• Activity Cards with Answer Key

These activity cards offer students the chance to take part in career-based activities and to discover first-hand how professionals use math on a daily basis. The cards are open-ended, with a strong focus on problem solving and higher-order thinking skills, and thus allow students of different ability levels to engage in each activity. Although the cards are not teacher-directed, most students will need to consult with their teacher from time to time. Each card has a primary link to the mathematics of one chapter of *Minds on Math*. Links to related chapters are also noted. Cards can take from one day to one week for students to complete and may require access to a phone and the cooperation of local businesses. Most cards focus on individual work but may also be used with a partner or in a small group. Student responses and calculations can be assessed. An answer key is provided.

Comments:

- Manipulatives such as algebra tiles, integer discs and suitable software are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:

- The copies of the student pages included in the teacher's resource book may be too small for some people to read—less than 25% of the page.
- The software package requires either ClarisWorks or Microsoft Works in order to run.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996 0201426811
1997 0201426889
1997 0201426897
1997 0201426927

Components:

- Student Book
- Teacher's Resource Book
- Template and Data Disk Package
- Activity Cards with Answer Key

Est. WCP Price(s):

\$35.98
\$111.25
\$111.25
\$66.75

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Alge-Tiles: Grades 7-11 (Ages 12-16+)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

90 pages, binder

Author(s):

LeSage, J.; Scully, J.; Scully, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Alge-Tiles: Grades 7-11 (Ages 12-16+)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource provides hands-on experiences using algebra tiles to help students develop an understanding of ratios, integers, polynomials, factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

Comments:

- Algebra tiles are not included.
- This resource is primarily for Grade 9, but it can be used in Grade 7 for learning about integers and in Grade 8 for solving equations.

Cautions:

- Some sections of the binder go beyond the outcomes of Grade 9.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓



Fraction Blocks: Grades 5-8 (Ages 11-14)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

169 pages, binder

Author(s):

Glanfield, F.; Pallos-Haden, K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1995

Fraction Blocks: Grades 5-8 (Ages 11-14)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource provides blackline master activity sheets, student lessons, teaching strategies and assessment ideas for hands-on activities using fraction blocks. Students start with developing an understanding of the concept of a fraction and work through to the operations of addition, subtraction, multiplication and division of fractions. Fraction blocks help students understand the concept of a whole and the relationship of pieces to the whole. Fraction blocks, along with pattern blocks, model the following fractions: halves, quarters, thirds, sixths and twelfths. Students are encouraged to communicate orally and in writing and to reflect on their learning.

Comments:

- Fraction blocks are not included.
- Most activities are at the Grade 7 and Grade 8 levels. Activities at the Grade 5 and Grade 6 levels are limited.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓



Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3.0)
- The Geometer's Sketchpad (Windows Version 3.03)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Annotation:

This resource consists of disks, a user's guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grades 7 through 9. The user's guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations, and construction activities on a wide range of geometry topics are included.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz, 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Cautions:

- System defaults to inches, but it can be set to centimetres.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Key Curriculum Press

Distributor: Spectrum Educational Supplies
125 Mary Street
AURORA ON L4G 1G3

Phone: (800) 668-0600

Fax: (905) 727-6265

Copyright: ISBN:

1995 1559530987

1995 1559530995

Components:

- The Geometer's Sketchpad (Macintosh Version 3.0)
- The Geometer's Sketchpad (Windows Version 3.03)

Est. WCP Price(s):

\$269.95 (Single User)
\$619.95 (Lab 10-Pack)
\$1349.95 (Site Licence)
\$269.95 (Single User)
\$619.95 (Lab 10-Pack)
\$1349.95 (Site Licence)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Geometry Blaster (Macintosh / Windows Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM in plastic case



Annotation:

This software package includes lessons, activities and games, all of which teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate, or a mastery level. The ten main topics explored are points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3D, coordinate geometry, transformational geometry and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

Comments:

- The resource is most useful for Grade 9.
- The games assume knowledge beyond the Grade 7 level.

System Requirements:

- Macintosh: System 7.0 or later, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.

Cautions:

- There is minimal real-life problem solving.
- There are many parts of this resource that are beyond the Grade 9 level.

Audience: General / ESL / Gifted

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Davidson & Associates Inc.

Distributor: Davidson & Associates Inc.
P.O. Box 2961
19840 Pioneer Avenue
TORRANCE CA 90503

Phone: (310) 793-0600, ext. 1291

Fax: (310) 793-0601

Copyright: ISBN:

1996 0784910634

Geometry Blaster (Macintosh / Windows Version)

Est. WCP Price(s):

\$79.95 (School Version)
\$189.95 (Lab Pack)
\$699.95 (Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:

1996

1996

Components:

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Est. WCP Price(s):

\$89.95

\$89.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓



The Intermediate Geoboard

Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

238 pages, binder

Author(s):

Danbrook, C.; Lesage, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This resource is designed to assist teachers in using the large geoboard with Grades 7 to 9 students. It contains teacher notes, student activity pages and follow-up activities on how to use the 10 x 10 pin, 11 x 11 pin and linking geoboards. Topics include shapes, symmetry, similarity, congruency, area, perimeter, Pythagorean theorem, fractions, per cent, Cartesian coordinates and analytic transformation. Blackline masters and answers for the activities are provided.

Comments:

- Geoboards are recommended but blackline masters of dot paper are provided in the appendix.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The Intermediate Geoboard

Est. WCP Price(s):

\$31.46

Supplier:

Phone: (403) 427-1111

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Junior High Probability Jobcards

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Laminated Notes to the Teacher card, one solution card, one spinners card and 20 activity cards



Author(s):

Goodnow, J.; Hoogeboom, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
									✓

Annotation:

The set of 20 activity cards poses questions about the probability of something occurring, then follows up with hands-on experiments in which students can make predictions, gather data, record and display data in a variety of ways (charts, tables, lists, graphs) and draw conclusions. Students use coins, spinners, dice and cubes. The cards include games which students play to determine whether the games are fair or unfair. Ideas are also given for students to think and write about. Definitions are given and concepts are introduced sequentially throughout the activities. Jobcards may be used in individual mathematics projects, small cooperative learning group work or in learning centres. Teacher notes, brief descriptions of the activities, solutions and four spinners are included.

Comments:

- The earlier cards are more suited to the outcomes in Grade 7, with the later cards being suited to the outcomes in Grade 8.

Cautions:

- American coins are pictured in some activities.
- Regular dice, icosahedra (20-faced) dice, coins and cubes are not supplied.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1991 1561071749

Junior High Probability Jobcards

Est. WCP Price(s):

\$24.48

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



Math Tools (Windows Version 1.5) Math Tools

Authorization Status:

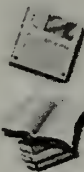
Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada
Distributor: Prentice Hall Ginn Publishing Co.
 1870 Birchmount Road
 SCARBOROUGH ON M1P 2J7
Phone: (800) 361-6128 ; (416) 293-3621
Fax: (416) 299-2539

Copyright: ISBN:
 1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price(s):
 \$58.94

Supplier: LRDC
Phone: (403) 427-5775
Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



**Mathville VIP (Macintosh /
Windows Version 1.0)**
Mathville

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM + User's Guide (5 pages,
softcover)



Annotation:

Mathville VIP is an interactive program integrating a broad range of thinking and mathematical skills with everyday life in the multimedia environment of a virtual village. In Mathville each student becomes a Very Important Person by walking, shopping and playing related to the four strands of the mathematics program. Activities are imaginative and engaging for students. The program is flexible and noncompetitive and supports different levels of student learning. It is suitable for review at the Grades 7 to 8 levels and for enrichment of Grade 6, using problem-solving skills.

Comments:

- This resource is only suitable for independent student use in grade 8 as the use of fraction operations is so prevalent that an independent learner cannot skip and run to reach different parts of the resource.
- This resource can be used for grade 6 and grade 7 with closer teacher direction of the student learning. Most of the decimal applications are at grade 6 conceptually, but the sizes of the numbers and the calculator application make it more suitable for grade 7.

System Requirements:

- Macintosh: System 7 or higher, 640x480 colour monitor, 8MB hard disk space, CD drive.
- Windows 3.1: 486/50 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.
- Windows 95: 486/66 MHz, 8 MB RAM, colour monitor, sound and graphics cards, mouse, CD drive.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓		✓

Publisher: Courseware Solutions Inc.

Distributor: Didatech Software
4250 Dawson Street, Suite 200
BURNABY BC V5C 4B1

Phone: (800) 665-0667; (604) 299-4435

Fax: (604) 299-2428

Copyright: ISBN:

1996 1895691540

Mathville VIP (Macintosh / Windows Version
1.0)

Est. WCP Price(s):

\$56.00 (Single User)

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (905) 430-5080

Fax: (905) 430-5194

1996 1895691540
1895691559 (Lab
5-Pack)

Mathville VIP (Macintosh / Windows Version
1.0)

\$62.95 (Single User)
\$183.75 (Lab 5-Pack)
\$472.50 (Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

121 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

Est. WCP Price(s):

\$31.46

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Statistics Workshop (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 3.5" disc, manual - 66 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Annotation:

Statistics Workshop is a set of computer tools for understanding and exploring fundamental concepts of data analysis. These tools combine the features of interactivity, visualization, and multiple-linked representations to create a laboratory in which students can explore the underlying meaning of abstract statistical concepts and processes. *Statistics Workshop* provides an easy-to-use system for entering, manipulating, and displaying data. The resource indicates the mean, median and mode of the data, as well as quartiles, range and line of best fit, and a variety of statistical measures for each graph. It contains a spreadsheet of flexible size for entering data and sample data sets that can be used for the analysis of data and the manipulation of data points. Support materials include a tutorial, teaching ideas and sample student activities.

System Requirements:

Macintosh: Mac Plus or later (Classic or later recommended), 1 MB RAM.

Cautions:

- This resource goes beyond the outcomes of the Protocol framework in some areas, e.g. best-fit lines and scatter plots at the Grade 9 level.
- Although the software runs on a Mac Plus, screen displays are then inadequate.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Publisher: Sunburst

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 321-7511, Ext. 430

Fax: (416) 293-9009

Copyright:

1991

Statistics Workshop (Macintosh Version)

Est. WCP Price(s):

\$129.95 (Single)

\$259.95 (5-Pack)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Triple 'A' Mathematics Program:
Data Management & Probability
Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

249 pages, binder

Author(s):

Birse, J.; Cornwall, R.; Wilson, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Triple 'A' Mathematics Program: Data
 Management & Probability

Est. WCP Price(s):

\$33.26

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource is a binder of activities, projects and assessment items for data analysis and probability. Extensive teacher support in terms of suggested teaching strategies, sequencing, and scoring rubrics is provided. Activities include both routine calculation and open-ended projects. Some activities involve critical thinking.

Comments:

- Limited random number tables are provided, but other manipulatives must be provided by the teacher.
- Assessment material consists of discrete items, rather than assessment instruments.

Cautions:

- This resource has no discussion of the best-fit line at the Grade 9 level.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		



Understanding Math Series

- Understanding Fractions (Macintosh Version 4.0)
- Understanding Fractions (Windows Version 4.0)
- Understanding Integers (Macintosh Version 3.0)
- Understanding Integers (Windows Version 3.0)
- Understanding Exponents (Macintosh Version 3.0)
- Understanding Exponents (Windows Version 3.0)
- Understanding Algebra (Macintosh Version 2.0)
- Understanding Algebra (Windows Version 2.0)
- Understanding Equations (Macintosh Version 2.0)
- Understanding Equations (Windows Version 2.0)
- Understanding Geometry (Macintosh Version 2.0)
- Understanding Geometry (Windows Version 2.0)
- Understanding Percent (Macintosh Version 1.0)
- Understanding Percent (Windows Version 1.0)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Versions: One 3.5" disc, manual.
- Windows Versions: Two 3.5" discs, manual.



Author(s):

Neufeld, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This software series assists students in developing an understanding of mathematics concepts based on a solid foundation of concrete activities. Topics include fractions, integers, exponents, algebra, equations, coordinate geometry and graphing, and percent. For each topic the program contains concept sections with explanation, example sections, practice sections and cumulative checks. The user is in control through pull-down menus and proceed and go-back buttons. Each program includes a teacher manual.

Comments:

- The balance between product and processes favours process.
- The content delivery is concrete and sequential in its approach.

System Requirements:

- Macintosh: System 6.07, colour monitor, Macintosh II with 2 MB RAM, hard drive; System 7.X, colour monitor, Macintosh II with 4 MB RAM, hard drive.
- Windows 3.1: 386/33 MHz, 4 MB RAM, VGA monitor, hard drive.
- Windows 95: 486/50 MHz, 8 MB RAM, VGA monitor, hard drive.

Cautions:

- Some problems may appear while running the software with only the minimum system requirements listed. Increasing memory partition to 6 MB avoids graphics problems.
- The software ran trouble free on the following:
 - 1) Macintosh: PowerMac 6100/60 or higher, Performa 5200 or higher, system 7.5, 8 MB RAM, provision to change colours on monitor.
 - 2) Windows 3.1 or Windows 95: 486 or higher processor running at 50 MHz or faster, 8 MB RAM.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
		✓	✓		✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓		✓		

Continued

Publisher: Neufeld & Associates

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:	ISBN:	Components:	Est. WCP Price
1996	0969241895 (Guide)	• Understanding Fractions (Macintosh Version 4.0)	\$69.95
1996	0969241895 (Guide)	• Understanding Fractions (Windows Version 4.0)	\$69.95
1996	096964941X (Guide)	• Understanding Integers (Macintosh Version 3.0)	\$69.95
1996	096964941X (Guide)	• Understanding Integers (Windows Version 3.0)	\$69.95
1996	0969649401 (Guide)	• Understanding Exponents (Macintosh Version 3.0)	\$69.95
1996	0969649401 (Guide)	• Understanding Exponents (Windows Version 3.0)	\$69.95
1996	0969649436 (Guide)	• Understanding Algebra (Macintosh Version 2.0)	\$69.95
1996	0969649436 (Guide)	• Understanding Algebra (Windows Version 2.0)	\$69.95
1996	0969649428 (Guide)	• Understanding Equations (Macintosh Version 2.0)	\$69.95
1996	0969649428 (Guide)	• Understanding Equations (Windows Version 2.0)	\$69.95
1996	0969649444 (Guide)	• Understanding Geometry (Macintosh Version 2.0)	\$69.95
1996	0969649444 (Guide)	• Understanding Geometry (Windows Version 2.0)	\$69.95
1996		• Understanding Percent (Macintosh Version 1.0)	\$69.95
1996		• Understanding Percent (Windows Version 1.0)	\$69.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdoc>



The World's Most Popular Puzzles and Problems Active Learning: Grades 5 - 9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

161 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Annotation:

This collection of activities is designed to enhance and motivate logical thinking, improve problem-solving strategies and explore the history of games. Ancient puzzles, such as tangrams, dominoes, tower of Hanoi and Xs and Os are combined with pentominoes, Nim, toothpick geometries, number puzzles and patterns. The resource contains problem-solving and evaluation strategies for teachers and students. Blackline masters and answers are included.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓				✓			✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The World's Most Popular Puzzles and Problems

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1992

0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Constructing Ideas: Grades 6-8

- Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8
- Constructing Ideas About Geometry: Grades 6-8
- Constructing Ideas About Data Analysis: Grades 6-8

Annotation:

This set of teacher resources focuses on fractions, decimals and percents, geometry and data analysis. A variety of learning explorations encourages students to think, invent, investigate and make connections. Each book contains a set of explorations, with teacher directions, helpful questioning and discussion techniques and samples of student work. The organization of lessons is logical and easy to follow, and reproducible homework pages are included to support in-class explorations.

Audience: General

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Fractions, Decimals & Percents - 102 pages, coilbound
- Geometry - 104 pages, coilbound
- Data Analysis - 106 pages, coilbound

Author(s):

Ward, S.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓		✓	

Publisher: Creative Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1995 1561078123

1995 1561078131

1995 1561078115

Components:

• Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8

• Constructing Ideas About Geometry: Grades 6-8

• Constructing Ideas About Data Analysis: Grades 6-8

Est. WCP Price(s):

\$28.10

\$28.10

\$28.10

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover



Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:
1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.80

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Dealing with Data and Chance

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover



Author(s):

Zawajewski, J.; et al.

Annotation:

This resource provides a variety of data management activities that relate to data gathering, communication, experiments, simulations, writing survey questions, cause and effect, and justifying different ways to display data. Sample lessons, suggestions for evaluation, and blackline masters are included.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Copyright: ISBN:
1991 0873533216

Dealing with Data and Chance

Est. WCP Price(s):

\$21.50

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Developing Number Sense in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

56 pages, softcover

Author(s):

Reys, B.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533224

Developing Number Sense in the Middle Grades

Est. WCP Price(s):

\$15.05

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover

Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Geometry in the Middle Grades

Authorization Status:

Authorized Teaching

Physical Characteristics:

88 pages, softcover

Author(s):

Geddes, D.; et al.



Annotation:

This resource provides activities for students to develop spatial sense by using physical models to discover, visualize and represent concepts and properties of geometric figures in the physical world. The activities focus on two- and three-dimensional geometry concepts, relationships among properties of shapes including angle sums, transformation geometry and enrichment topics. Sample lessons, evaluation ideas and blackline masters are included.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1992 0873533232

Geometry in the Middle Grades

Est. WCP Price(s):

\$21.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Glencoe Mathematics Professional

- Alternative Assessment in the Mathematics Classroom
- Cooperative Learning in the Mathematics Classroom
- Involving Parents and the Community in the Mathematics Classroom

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Alternative Assessment in the Mathematics Classroom - 58 pages, softcover
- Cooperative Learning in the Mathematics Classroom - 44 pages, softcover
- Involving Parents and the Community in the Mathematics Classroom - 44 pages, softcover

Author(s):

Foster, A. G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

• Alternative Assessment in the Mathematics Classroom

This booklet describes alternative assessment techniques that will help teachers better monitor and measure the performance of students against curriculum standards that emphasize problem solving, communicating, reasoning and connecting. Assessment methods described are performance assessment tasks, observation and questioning, presentations and projects, and portfolios and journals. Documentation and evaluation methods include scoring rubrics, checklists, written comments, and descriptive reports by students and teachers.

• Cooperative Learning in the Mathematics Classroom

This booklet is designed to help teachers provide opportunities for students to work together in problem-solving situations. An overview of cooperative learning is provided along with a description of the roles of team members, ideas for developing social skills, structures to deliver instruction to students, and lesson design. Teacher notes for lessons, a bibliography, and answers are included.

• Involving Parents and the Community in the Mathematics Classroom

This booklet is designed to help teachers communicate with parents about mathematics teaching and learning in their classrooms. Ways of involving parents include suggestions for how parents can help at home and for parent conferences. Twenty-nine take-home activities are suitable for junior and senior high students to work through with their parents. These are accompanied by teaching notes and answers. Ideas for mathematics projects and community involvement are provided.

Cautions:

- Some measurement activities use Imperial Measure.
- Grade level references in "Involving Parents and the Community" do not match the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: McGraw-Hill

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1993 0028245466

1993 0028245458

1993 0028248201

Components:

- Alternative Assessment in the Mathematics Classroom \$21.70
- Cooperative Learning in the Mathematics Classroom \$21.65
- Involving Parents and the Community in the Mathematics Classroom \$19.50

Est. WCP Price(s):

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Est. WCP Price(s):

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

• Learning Mathematics in Elementary and Middle Schools (Book)



• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

• Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall / Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

• Learning Mathematics in Elementary and Middle Schools (Book)

• Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Math Assessment: Grade 8

- Teacher's Resource Book
- Student's Booklet

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Teacher's Resource Book - 167 pages, softcover
- Student's Booklet - 28 pages, softcover

Author(s):

Flewelling, G.; et.al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Annotation:

• Teacher's Resource Book

This teacher's resource book offers assessment activity sets correlated to specific learning outcomes, rubrics for four levels of performance, performance indicators for each task and sample student responses for each task. Suggestions for implementation and activity blackline masters are included. A set of performance indicators is provided for each of the four performance levels for the activities in both the student booklet and the blackline masters. The resource book also provides sample student responses at level 3 with an indication of the time for a typical student to respond.

• Student Booklet

The student booklet contains interesting and motivating tasks designed to demonstrate student understanding. Activities usually focus on more than one learning outcome. There are five sets of activities, one for each of the following strands: number sense and numeration, measurement, patterning and algebra, data management and probability, and geometry and spatial sense. Each set is divided into subsets, one subset for each outcome in the strand. The activities are designed to assess in seven dimensions: mathematics knowledge and skills, problem solving, reasoning, communication, technology, connections and attitude.

Comments:

- The resource is more suitable for formative, rather than summative assessment. The tasks are very open-ended.
- Samples of student work are given only at level 3, and teachers are expected to recognize work at other levels.

Cautions:

- Some activities on mean and median are more appropriate for Grade 7.
- The coding system used for objectives does not correspond to Protocol framework grades or strands.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Publisher: Gage Educational Publishing

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright: ISBN:

1997 0771533748

1997 0771533713

Components:

- Teacher's Resource Book
- Student's Booklet

Est. WCP Price(s):

\$129.95

\$9.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Mathematics: What Are You Teaching My Child?

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LPD

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Mental Math in Junior High: Blackline Masters

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

170 pages, softcover

Author(s):

Hope, J.A.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Dale Seymour

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Annotation:

This resource presents strategies for teaching mental mathematics to students. It extends early methods, such as finding or making compatible numbers, working from the front-end and dealing with trailing zeros, to more advanced methods of calculating mentally with fractions, decimals and percents, as well as whole numbers. Fifty lessons are organized in five units: Memorizing Pi; The "Teens" Times Table; Left-to-Right Multiplication; Squaring Numbers; Cube Roots. Each lesson contains a lesson page to introduce each new mental mathematics strategy and a power builder page with two sets of practice problems. At the close of each unit there is a review page and progress test. A cumulative test designed to be used as a pre-test and post-test and answer keys for all practice sets and tests are provided.

Cautions:

- Some examples use Imperial Measure and U.S. contexts.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Copyright: ISBN:

1988 0866514333

Mental Math in Junior High: Blackline Masters

Est. WCP Price(s):

\$17.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in the World

Est. WCP Price(s):

\$36.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Nelson Canadian School Mathematics Dictionary

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

252 pages, softcover

Author(s):

Fyfield, J.; Blane, D.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Nelson

Distributor: Nelson Canada
1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (800) 268-2222

Fax: (800) 430-4445

Copyright: ISBN:

1995 0176048006

The Nelson Canadian School Mathematics Dictionary

Est. WCP Price(s):

\$10.75

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Patterns and Functions

Authorization Status:

Authorized Teaching

Physical Characteristics:

72 pages, softcover

Author(s):

Phillips, E.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533240

Patterns and Functions

Est. WCP Price(s):

\$18.65

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This dictionary provides a comprehensive list of mathematical terms. Features include cross-referencing, diagrams, pronunciations, word origins, and guidance on usage.

Cautions:

• The conceptual level of the definitions varies widely. This dictionary is most suitable for use as a teacher resource, but may be used with students, as appropriate.

Audience: General / Teachers

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Annotation:

This resource provides a variety of problem solving activities with suggestions for using manipulatives to promote student understanding of patterns. The activities focus on exponents, number theory (primes, Pascal's Triangle, probability), fractions, decimals, perimeter, area, volume and graphing. Many charts and diagrams are included as well as suggestions for evaluation and sample lessons.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover



Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 8

*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

50 pages, coilbound

Author(s):

Hauk, C.M.; Quinn, B.A.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Annotation:

This teacher resource provides assistance for teachers in implementing the Protocol framework. Keyed directly to each Illustrative Example (IE), it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the processes (problem-solving, communication, reasoning, connections, estimation and mental mathematics, technology, and visualization) that are associated with the corresponding Specific Outcomes. For added convenience each page of this resource is cross-referenced to the page where the respective Illustrative Example appears in the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: C. Marie Hauk / Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON AB T6M 1W3

Phone: (403) 487-8841

Fax: (403) 481-9913

Copyright:

1997

Solutions & Extensions for Illustrative Examples
from the Western Canadian Protocol: Grade 8

Est. WCP Price(\$)

\$9.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Interactions (Level 9)

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Textbook - 388 pages, hardcover
- Teacher Resource Package (Includes Teacher's Resource Book - 388 pages, coilbound; Professional Assessment Handbook and Teacher's Resource Blackline Masters - approximately 150 pages, binder)



Author(s):

Elchuk, L.; et al

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Annotation:

Interactions provides students with opportunities to develop their mathematical literacy along three dimensions: Number Sense, Spatial Sense, and Problem Solving. These dimensions are presented not as topics but as different perspectives from which to view the learning of mathematics, and are supported by many learning activities. Problem solving is a central focus of the program, and each developmental unit emphasizes a particular problem-solving strategy. Connections between strands and other curricular areas, real-life contexts and applications, the use of technology, and the use and development of natural and mathematical language are emphasized. This multicomponent resource includes developmental and investigation units, and the mathematical content is organized into the following strands: Number; Statistics and Probability; Patterns and Relations; Shape and Space.

• Student Textbook

The text provides core learning activities for developing and applying mathematical concepts. It is organized into 12 units and provides for student choice, skill development activities and problem-solving strategies. Practice and consolidation of learning is built in through games and problems, and assessment activities are included. The student text provides worked examples, solutions and a glossary.

• Teacher Resource Book

This resource accompanies the student book and presents activities and approaches for planning, teaching, extending, enriching and assessing a balanced mathematics program. A variety of activities and learning experiences provide opportunities for students to construct and apply mathematical knowledge. The binder includes program information, teaching plans for the ten developmental and two investigation units, and answers from the student book.

• Assessment Booklet and Blackline Masters

This resource includes information on assessing mathematics, planning for assessment, specific activities and strategies and recording and reporting assessment. Blackline masters include project assignments with assessment criteria, analytic and holistic scoring guides, teacher and student checklists and home letters.

Comments:

- Manipulatives, such as algebra tiles, fraction circles, geoboards and suitable software are necessary to use the resource effectively. These are not supplied with the resource.

Cautions:

- A four function calculator, rather than a scientific calculator, is used in some software references.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 567-3800

Fax: (800) 263-7733

Copyright: ISBN:

1996 0132588315
1996 0132588498

Components:

- Student Textbook
- Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)

Est. WCP Price(s):

\$32.86
\$116.60

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



MATHPOWER (Western Ed.) (Grade 9)

- Student Book
- Blackline Masters
- Teacher's Edition

Authorization Status:

Basic

WCP Category:

Breadth Resource

Physical Characteristics:

- Student Book - 402 pages, hardcover
- Blackline Masters - 122 pages, softcover
- Teacher's Edition - 442 pages, softcover



Author(s):

Knill, G.; et al.

Annotation:

This program supports the learning of mathematics in a variety of ways. Concepts and skills are presented in problem-solving contexts, and questions are designed to help students express their ideas about mathematics orally and in writing. Students are encouraged to work in small groups to explore new ideas; manipulatives are used for the understanding of abstract concepts; and the use of appropriate technology is integrated throughout the text. The strands are presented in the same order as the Protocol framework and, within that sequence, students are encouraged and challenged to use interrelated concepts and skills. The mathematical processes of communication, connections, estimation and mental mathematics, problem solving, technology, and visualization are integrated in examples and activities.

• Student Book

This is organized into nine chapters that relate to topics from the strands. Each chapter starts with an introductory activity followed by questions and activities that enable students to build, practise, apply and extend learning. Logos indicate estimating, writing, thinking and cooperative group activities. Manipulatives are used and technology suggestions show students how to apply technology, including calculators and computers, to solve problems.

• Blackline Masters

These provide extra practice for each teaching lesson in the text. The two tests for each chapter are appropriate for assessment, practice, or reinforcement. An extension for each chapter further develops the skills included in the text.

• Teacher's Edition

This contains teaching suggestions to introduce concepts, as well as reinforcement, extension, enrichment and assessment strategies. Step-by-step lesson plans accompany the student text. A data bank, answers and a glossary are provided. Alternate chapter checks and assessment masters give variations for evaluation and review. Teaching Edition masters provide materials such as grid and dot paper, number lines, algebra tiles, tangrams, spinners, geometric shapes, and nets.

Comments:

- Manipulatives such as algebra tiles, and suitable software are necessary for using the resource effectively. These are not supplied with the resource.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: McGraw-Hill Ryerson Ltd.

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1996 0075526530
1996 0075526549
1996 0075526557

Components:

- Student Book
- Blackline Masters
- Teacher's Edition

Est. WCP Price(s):

\$35.65
\$89.25
\$105.00

Supplier:

LRDC




Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Minds on Math (Level 9)

- Student Book
-  • Teacher's Resource Book
-  • Template and Data Disk Package
-  • Activity Cards with Answer Key

Authorization Status:

Basic

WCP Category:

Breadth and Depth Resource

Physical Characteristics:

- Student Book - 531 pages, hardcover
- Teacher's Resource Book - 11 booklets, softcover
- Template and Data Disk Package - Six 3.5" discs, Teacher's Guide, 107 pages, softcover
- Activity Cards with Answer Key - 32 Activity Cards, Answer Key, 8-page pamphlet



Author(s):

Alexander, R.; et al.

Annotation:

This program helps students develop mathematical understanding through problem solving that relates to meaningful real-world contexts. It focuses on major mathematical concepts, such as patterns, relationships, number, shape, change, dimension and uncertainty, that are also a part of other subject areas. A variety of approaches allows students to learn through manipulatives, individual and cooperative activities, discussion and guided examples. Literacy and numeracy are developed side-by-side and frequent opportunities are provided for students to communicate what they learn in a variety of ways. Technology (computer and calculator) and problem solving are integrated throughout the chapters. Links between mathematics and other disciplines are explored.

• Student Book

The text has eight chapters that relate to topics from the strands. Each chapter begins with activities and exercises that allow students to assess their prior knowledge before they explore new concepts. The main instructional sequence consists of three parts. New concepts are presented through discussions, activities, guided examples using manipulatives, and instruction. Students are then involved in both independent and small-group explorations of the topic. Finally, students communicate mathematical thoughts and discoveries through discussion and writing. The student book contains answers, a glossary and an index.

• Teacher's Resource Book

The teacher's resource book consists of eleven booklets. The first booklet provides an overview of the program and its philosophy, along with an exploration of teaching, classroom management and assessment strategies. It also contains masters for ongoing support. Subsequent booklets relate to each unit of work. For each booklet an overview describes the content of the unit and identifies required material. Comprehensive teaching notes correspond to each reduced student book page. Questions set the stage for activities that include core lessons, quests and projects. An assessment section, review exercises and scoring guidelines are included. Blackline masters for re-teaching, classroom management and assessment are provided. The final booklet gives fully worked solutions.

• Template and Data Disk Package

The software package includes a data disk with information in the following databases: moon and planets, billboard number one hits, Olympic Summer Games, World Health Organization, Provinces and Territories of Canada and land use. Spreadsheet files are included on a template disk to help students start many of the computer activities in the student text. The teacher's guide provides information on the technology features and computer activities of the program and includes database tutorials, and a variety of activities related to the databases. The guide includes teaching notes, chapter references to the student text and answers for the tutorials and database activities.

• Activity Cards with Answer Key

These activity cards offer students the chance to take part in career-based activities and to discover first-hand how professionals use math on a daily basis. The cards are open-ended, with a strong focus on problem solving and higher-order thinking skills, and thus allow students of different ability levels to engage in each activity. Although the cards are not teacher-directed, most students will need to consult with their teacher from time to time. Each card has a primary link to the mathematics of one chapter of *Minds on Math*. Links to related chapters are also noted. Cards can take from one day to one week for students to complete and may require access to a phone and the cooperation of local businesses. Most cards focus on individual work but may also be used with a partner or in a small group. Student responses and calculations can be assessed. An answer key is provided.

Comments:

- Manipulatives such as algebra tiles and suitable software are necessary for using the resource effectively. These are not supplied with the resource.

Cautions:

- The copies of the student pages included in the teacher's resource book may be too small for some people to read—less than 25% of the page.
- The software package requires either ClarisWorks or Microsoft Works in order to run.
- Since the package requires ClarisWorks or Microsoft Works to run, the teacher must convert from radians to degrees before using any trigonometric applications.
- Body measurements are used in two examples on the activity cards. Teachers should be careful and sensitive before using these cards.

Audience: General

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Addison-Wesley

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Copyright: ISBN:

1996	020142682X
1997	0201426935
1997	0201677041
1997	0201426978

Components:

- Student Book
- Teacher's Resource Book
- Template and Data Disk Package
- Activity Cards with Answer Key

Est. WCP Price(s):

\$37.05
\$111.25
\$111.25
\$66.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Alge-Tiles: Grades 7-11 (Ages 12-16+)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

90 pages, binder

Author(s):

LeSage, J.; Scully, J.; Scully, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓						

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Annotation:

This resource provides hands-on experiences using algebra tiles to help students develop an understanding of ratios, integers, polynomials, factoring and solving equations. It provides ideas for teachers on how to help students use algebra tiles and the accompanying activity sheets. Each topic includes teacher notes, student blackline master activity sheets and answers for all activities.

Comments:

- Algebra tiles are not included.
- This resource is primarily for Grade 9, but it can be used in Grade 7 for learning about integers and in Grade 8 for solving equations.

Cautions:

- Some sections of the binder go beyond the outcomes of Grade 9.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Est. WCP Price(s):

Alge-Tiles: Grades 7-11 (Ages 12-16+)

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3.0)
- The Geometer's Sketchpad (Windows Version 3.03)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version: Three 3.5" discs; one binder with User Guide and Reference Manual, 242 pages, softcover; Teaching Notes, 78 pages; Macintosh Quick Reference; one videocassette
- Windows Version: Two 3.5" discs; one binder with User Guide and Reference Manual, 240 pages, softcover; Teaching Notes, 78 pages; Windows Quick Reference; one videocassette



Annotation:

This resource consists of disks, a user's guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The sketchpad models geometry in two linked views. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grades 7 through 9. The user's guide and reference manual provide adequate instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstrations, and construction activities on a wide range of geometry topics are included.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A video supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The video supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz, 8MB RAM, hard drive. The video supports both Macintosh and Windows versions.

Cautions:

- System defaults to inches, but it can be set to centimetres.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Key Curriculum Press

Distributor: Spectrum Educational Supplies
125 Mary Street
AURORA ON L4G 1G3

Phone: (800) 668-0600

Fax: (905) 727-6265

Copyright: ISBN:

1995 1559530987

1995 1559530995

Components:

• The Geometer's Sketchpad (Macintosh Version 3.0)

• The Geometer's Sketchpad (Windows Version 3.03)

Est. WCP Price(s):

\$269.95 (Single User)

\$619.95 (Lab 10-Pack)

\$1349.95 (Site Licence)

\$269.95 (Single User)

\$619.95 (Lab 10-Pack)

\$1349.95 (Site Licence)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Geometry Blaster (Macintosh / Windows Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One CD-ROM in plastic case



Annotation:

This software package includes lessons, activities and games, all of which teach and reinforce geometric concepts. It uses a three-level approach, allowing a student to progress at a beginning, an intermediate, or a mastery level. The ten main topics explored are points and lines, triangles, polygons and quadrilaterals, similarity, circles, perimeter and area, solids in 3D, coordinate geometry, transformational geometry and logical reasoning and proof. The program is interactive and requires decision making and creative thinking by students.

Comments:

- The resource is most useful for Grade 9.
- The games assume knowledge beyond the Grade 7 level.

System Requirements:

- Macintosh: System 7.0 or later, 8 MB RAM.
- Windows 3.1: 386/33 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.
- Windows 95: 486/50 MHz, 8 MB RAM, Pentium processor recommended, 256 super VGA or better colour monitor, sound and graphics cards, CD drive, and a mouse are required, and a printer is recommended.

Cautions:

- There is minimal real-life problem solving.
- There are many parts of this resource that are beyond the Grade 9 level.

Audience: General / ESL / Gifted

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Davidson & Associates Inc.

Distributor: Davidson & Associates Inc.
P.O. Box 2961
19840 Pioneer Avenue
TORRANCE CA 90503

Phone: (310) 793-0600, ext. 1291

Fax: (310) 793-0601

Copyright: ISBN:

1996 0784910634

Geometry Blaster (Macintosh / Windows Version)

Est. WCP Price(s):

\$79.95 (School Version)

\$189.95 (Lab Pack)

\$699.95 (Site License)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Hot Dog Stand: The Works

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Version - One CD-ROM, Teacher's Guide, 77 pages, binder
- Windows Version - One CD-ROM, Teacher's Guide, 77 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓							✓	

Annotation:

This program simulates running a hot dog stand. Students gather information, keep records, plan inventory, decide on pricing and look at selling strategies. There are three levels of operation. At the intermediate and advanced levels, students also deal with the unexpected events of running a business, such as weather, unreliable suppliers and machine breakdown. Students estimate, calculate, read graphs and keep track of their progress in a journal—incorporated as a mini-word processor. In the teacher's guide there are follow-up activities relating to starting and running a business.

System Requirements:

- Macintosh: For full installation and fastest running, System 7.0 or later, 68040 or later processor, running at 25 MHz or faster, 8 MB RAM, 31 MB hard drive space, double speed CD drive, and 640x480, 256 colour monitor.
- Windows 3.1: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.
- Windows 95: 486/66 MHz, 8 MB RAM, 30 MB hard drive, double speed CD drive and 640x480 256 colour monitor.

Cautions:

- Partial installations are possible, but run much slower.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Sunburst Communications

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright:

1996

1996

Components:

- Hot Dog Stand: The Works (Macintosh)
- Hot Dog Stand: The Works (Windows)

Est. Price(s):

\$89.95

\$89.95

Supplier:

LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Intermediate Geoboard

Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

238 pages, binder

Author(s):

Danbrook, C.; Lesage, J.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This resource is designed to assist teachers in using the large geoboard with Grades 7 to 9 students. It contains teacher notes, student activity pages and follow-up activities on how to use the 10 x 10 pin, 11 x 11 pin and linking geoboards. Topics include shapes, symmetry, similarity, congruency, area, perimeter, Pythagorean theorem, fractions, per cent, Cartesian coordinates and analytic transformation. Blackline masters and answers for the activities are provided.

Comments:

- Geoboards are recommended but blackline masters of dot paper are provided in the appendix.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓	✓	✓		

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1996

The Intermediate Geoboard

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Math Tools (Windows Version

1.5)

Math Tools

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

Two 3.5" discs, User Manual, 163 pages



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Annotation:

This package is a set of software utilities that can share data. The tools include spreadsheet, calculation, geometry, graphs, manipulatives, fraction strips and probability. A colour linking feature between two or more windows allows data to be shared and represented in a variety of formats. Information on installing and using the software and chapters specific to each math tool are included. A glossary and index are provided.

Comments:

- It is capable of being used in interdisciplinary application; e.g. mathematics/science, mathematics/social studies.
- It needs Microsoft Works or ClarisWorks to be installed on the hard drive.
- It can be used in conjunction with any approved resource.

System Requirements:

- Windows 3.1: 386/33 MHz, 4 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.
- Windows 95: 486/50 MHz, 8 MB of RAM, 13" VGA monitor, 2 MB hard disk space, PKZIP.

Cautions:

- The algebra tile manipulatives have limited usage; e.g. first-degree variables only.
- The spreadsheet uses radians as units for sine, cosine, and tangent calculations.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Prentice Hall Ginn Canada

Distributor: Prentice Hall Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0134109783

Math Tools (Windows Version 1.5)

Est. WCP Price(s)

\$58.94

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9)

Active Learning

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

121 pages, binder

Author(s):

Jones, G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Annotation:

This resource describes the processes and strategies used to solve problems, including trial and error, making a drawing/sketch, logical thinking, finding a pattern, working backward, elimination and making a list. Each strategy is explained with an example problem, followed by other problems that could be solved using this strategy. There are over 200 challenging activities that encourage critical thinking in real-world applications. Through cooperative grouping, independent learning and a mixture of routine and nonroutine tasks, a wide range of learning styles is accommodated.

Audience: General / Gifted

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166, ext. 30

Fax: (705) 725-1167

Copyright:

1991

Problem Solving: What You Do When You
Don't Know What To Do (Grade 4-9)

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Statistics Workshop (Macintosh Version)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

One 3.5" disc, manual - 66 pages, binder



Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Annotation:

Statistics Workshop is a set of computer tools for understanding and exploring fundamental concepts of data analysis. These tools combine the features of interactivity, visualization, and multiple-linked representations to create a laboratory in which students can explore the underlying meaning of abstract statistical concepts and processes. *Statistics Workshop* provides an easy-to-use system for entering, manipulating, and displaying data. The resource indicates the mean, median and mode of the data, as well as quartiles, range and line of best fit, and a variety of statistical measures for each graph. It contains a spreadsheet of flexible size for entering data and sample data sets that can be used for the analysis of data and the manipulation of data points. Support materials include a tutorial, teaching ideas and sample student activities.

System Requirements:

Macintosh: Mac Plus or later (Classic or later recommended), 1 MB RAM.

Cautions:

- This resource goes beyond the outcomes of the Protocol framework in some areas, e.g. best-fit lines and scatter plots at the Grade 9 level.
- Although the software runs on a Mac Plus, screen displays are then inadequate.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	✓

Publisher: Sunburst

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 321-7511, Ext. 430

Fax: (416) 293-9009

Copyright:

1991

Statistics Workshop (Macintosh Version)

Est. WCP Price(s):

\$129.95 (Single)

\$259.95 (5-Pack)

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Triple 'A' Mathematics Program:
Data Management & Probability
Active Learning: Grades 7-9

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

249 pages, binder



Author(s):

Birse, J.; Cornwall, R.; Wilson, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This resource is a binder of activities, projects and assessment items for data analysis and probability. Extensive teacher support in terms of suggested teaching strategies, sequencing, and scoring rubrics is provided. Activities include both routine calculation and open-ended projects. Some activities involve critical thinking.

Comments:

- Limited random number tables are provided, but other manipulatives must be provided by the teacher.
- Assessment material consists of discrete items, rather than assessment instruments.

Cautions:

- This resource has no discussion of the best-fit line at the Grade 9 level.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	✓

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
 243 Saunders Road
 BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

Triple 'A' Mathematics Program: Data Management & Probability

Est. WCP Price(s):

\$33.26

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Understanding Math Series

- Understanding Fractions (Macintosh Version 4.0)
- Understanding Fractions (Windows Version 4.0)
- Understanding Integers (Macintosh Version 3.0)

- Understanding Integers (Windows Version 3.0)

- Understanding Exponents (Macintosh Version 3.0)

- Understanding Exponents (Windows Version 3.0)

- Understanding Algebra (Macintosh Version 2.0)

- Understanding Algebra (Windows Version 2.0)

- Understanding Equations (Macintosh Version 2.0)

- Understanding Equations (Windows Version 2.0)

- Understanding Geometry (Macintosh Version 2.0)

- Understanding Geometry (Windows Version 2.0)

- Understanding Percent (Macintosh Version 1.0)

- Understanding Percent (Windows Version 1.0)

Authorization Status:

Support

WCP Category:

Depth Resource

Physical Characteristics:

- Macintosh Versions: One 3.5" disc, manual.
- Windows Versions: Two 3.5" discs, manual.



Author(s):

Neufeld, R.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

This software series assists students in developing an understanding of mathematics concepts based on a solid foundation of concrete activities. Topics include fractions, integers, exponents, algebra, equations, coordinate geometry and graphing, and percent. For each topic the program contains concept sections with explanation, example sections, practice sections and cumulative checks. The user is in control through pull-down menus and proceed and go-back buttons. Each program includes a teacher manual.

Comments:

- The balance between product and processes favours process.
- The content delivery is concrete and sequential in its approach.

System Requirements:

- Macintosh: System 6.07, colour monitor, Macintosh II with 2 MB RAM, hard drive; System 7.X, colour monitor, Macintosh II with 4 MB RAM, hard drive.
- Windows 3.1: 386/33 MHz, 4 MB RAM, VGA monitor, hard drive.
- Windows 95: 486/50 MHz, 8 MB RAM, VGA monitor, hard drive.

Cautions:

- Some problems may appear while running the software with only the minimum system requirements listed. Increasing memory partition to 6 MB avoids graphics problems.
- The software ran trouble free on the following:
 - 1) Macintosh: PowerMac 6100/60 or higher, Performa 5200 or higher, system 7.5, 8 MB RAM, provision to change colours on monitor.
 - 2) Windows 3.1 or Windows 95: 486 or higher processor running at 50 MHz or faster, 8 MB RAM.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
		✓	✓		✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓		✓		

Continued

Publisher: Neufeld & Associates

Distributor: Gage Educational Publishing
164 Commander Boulevard
SCARBOROUGH ON M1S 3C7

Phone: (800) 667-1115 ; (416) 293-8141

Fax: (416) 293-9009

Copyright: ISBN:

Components:

Est. WCP Price(s):

1996	0969241895 (Guide)	• Understanding Fractions (Macintosh Version 4.0)	\$69.95
1996	0969241895 (Guide)	• Understanding Fractions (Windows Version 4.0)	\$69.95
1996	096964941X (Guide)	• Understanding Integers (Macintosh Version 3.0)	\$69.95
1996	096964941X (Guide)	• Understanding Integers (Windows Version 3.0)	\$69.95
1996	0969649401 (Guide)	• Understanding Exponents (Macintosh Version 3.0)	\$69.95
1996	0969649401 (Guide)	• Understanding Exponents (Windows Version 3.0)	\$69.95
1996	0969649436 (Guide)	• Understanding Algebra (Macintosh Version 2.0)	\$69.95
1996	0969649436 (Guide)	• Understanding Algebra (Windows Version 2.0)	\$69.95
1996	0969649428 (Guide)	• Understanding Equations (Macintosh Version 2.0)	\$69.95
1996	0969649428 (Guide)	• Understanding Equations (Windows Version 2.0)	\$69.95
1996	0969649444 (Guide)	• Understanding Geometry (Macintosh Version 2.0)	\$69.95
1996	0969649444 (Guide)	• Understanding Geometry (Windows Version 2.0)	\$69.95
1996		• Understanding Percent (Macintosh Version 1.0)	\$69.95
1996		• Understanding Percent (Windows Version 1.0)	\$69.95

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



About Teaching Mathematics: A K-8 Resource

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

286 pages, softcover

Author(s):

Burns, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
		✓	✓						

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Annotation:

This resource reflects current ideas about mathematics teaching and the importance of developing in students the ability to think, reason and communicate mathematically. It explains how children learn mathematics and develop confidence in their mathematical abilities. Strategies for establishing a supportive classroom environment, in which problem solving is the primary focus of teaching mathematics are described. Over 240 classroom-tested activities that integrate problem solving in the strands and teach arithmetic are provided. The resource includes assessment strategies, blackline masters, ideas for communicating with parents and a bibliography.

Cautions:

- The resource contains SI and Imperial Measure.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Copyright: ISBN:

1992 0941355055

About Teaching Mathematics: A K-8 Resource

Est. WCP Price(s):

\$44.10

Supplier:

Phone: (403) 427-XXXX

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Curriculum and Evaluation Standards for School Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

258 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1989 0873532732

Curriculum and Evaluation Standards for School Mathematics

Est. WCP Price(s):

\$35.00

Supplier:

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This resource offers a vision of: (1) mathematical power for all in a technological society; (2) mathematics as something one does - solve problems, communicate, reason; (3) a curriculum for all that includes a broad range of content, a variety of contexts, and deliberate connections; (4) the learning of mathematics as an active, constructive process; (5) instruction based on real problems; and (6) evaluation as a means of improving instruction, learning and programs. The 40 curriculum standards divide the discussion of curriculum content according to three grade-level groups: Pre-Grade 1 - 4, 5 - 8, and 9 - 12.

Comments:

- This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Figures, Facts & Fables: Telling Tales in Science and Math

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

145 pages, softcover



Author(s):

Lipke, B.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Annotation:

This resource addresses storytelling as a tool for introducing, exploring and teaching mathematical concepts. It includes helpful advice on how to tell stories, how to teach storytelling to students and how to apply storytelling to mathematics and science. An extensive bibliography of resources for storytelling, stories and specific topics is provided, along with a collection of original and traditional stories to tell and use as models.

Cautions:

- References to the story "Ten Little Indians" and to seal killing may be problematic in some communities.
- Examples in measurement do not use SI units.

Audience: General / ESL / LD

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓				

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 043507105X

Figures, Facts & Fables: Telling Tales in Science and Math

Est. WCP Price(s):

\$38.60

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Glencoe Mathematics Professional

- Alternative Assessment in the Mathematics Classroom
- Cooperative Learning in the Mathematics Classroom
- Involving Parents and the Community in the Mathematics Classroom

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Alternative Assessment in the Mathematics Classroom - 58 pages, softcover
- Cooperative Learning in the Mathematics Classroom - 44 pages, softcover
- Involving Parents and the Community in the Mathematics Classroom - 44 pages, softcover



Author(s):

Foster, A. G.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Annotation:

• Alternative Assessment in the Mathematics Classroom

This booklet describes alternative assessment techniques that will help teachers better monitor and measure the performance of students against curriculum standards that emphasize problem solving, communicating, reasoning and connecting. Assessment methods described are performance assessment tasks, observation and questioning, presentations and projects, and portfolios and journals. Documentation and evaluation methods include scoring rubrics, checklists, written comments, and descriptive reports by students and teachers.

• Cooperative Learning in the Mathematics Classroom

This booklet is designed to help teachers provide opportunities for students to work together in problem-solving situations. An overview of cooperative learning is provided along with a description of the roles of team members, ideas for developing social skills, structures to deliver instruction to students, and lesson design. Teacher notes for lessons, a bibliography, and answers are included.

• Involving Parents and the Community in the Mathematics Classroom

This booklet is designed to help teachers communicate with parents about mathematics teaching and learning in their classrooms. Ways of involving parents include suggestions for how parents can help at home and for parent conferences. Twenty-nine take-home activities are suitable for junior and senior high students to work through with their parents. These are accompanied by teaching notes and answers. Ideas for mathematics projects and community involvement are provided.

Cautions:

- Some measurement activities use Imperial Measure.
- Grade level references in "Involving Parents and the Community" do not match the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: McGraw-Hill

Distributor: McGraw-Hill Ryerson Ltd.
300 Water Street
WHITBY ON L1N 9B6

Phone: (800) 565-5758

Fax: (905) 430-5203

Copyright: ISBN:

1993 0028245466

1993 0028245458

1993 0028248201

Components:

- Alternative Assessment in the Mathematics Classroom
- Cooperative Learning in the Mathematics Classroom
- Involving Parents and the Community in the Mathematics Classroom

Est. WCP Price(s):

\$21.70

\$21.65

\$19.50

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 *Active Learning*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

147 pages, binder

Author(s):

Cross, M.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Annotation:

This resource provides practical suggestions to help teachers and students use and enjoy portfolios as part of the assessment and evaluation process. It describes how to develop, organize, evaluate and maintain portfolios, and is applicable to any subject area. Descriptions of classroom activities, related blackline masters, information for parents and ideas for student and teacher conferences are provided.

Comments:

- Most of these ideas apply to other subjects as well as to mathematics. There are few suggestions that are exclusive to mathematics.
- The resource is not specific enough to mathematics to give any detail as to strands or substrands.

Cautions:

- Some blackline masters may not be suitable for older students.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓			

Publisher: Exclusive Educational Products

Distributor: Exclusive Educational Products
243 Saunders Road
BARRIE ON L4M 6E7

Phone: (800) 563-1166 ; (705) 725-1166

Fax: (705) 725-1167

Copyright:

1995

How To's in Getting Started with Assessment &
Evaluation Using Portfolios (Across the
Curriculum): Grades 1-10

Est. WCP Price(s):

\$31.46

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



Learning Mathematics in Elementary and Middle Schools

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Annotation:

This book is for preservice and practising mathematics teachers in elementary and middle schools. Theories of mathematical development are presented, along with practical examples and suggested organizational structures. The idea of the teacher as a learner and a researcher is promoted. The accompanying instructor's manual provides direction for inservicing and overhead transparency masters.

Comments:

- Activity boxes and teacher projects provide direct links back to teaching concepts to children.

Audience: General / Gifted / LD / ID (Mild)

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

- Book - 390 pages, softcover
- Instructor's Manual - 192 pages, loose



Author(s):

Cathcart, G.; et al.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Prentice Hall / Ginn Publishing Co.

Distributor: Prentice Hall / Ginn Publishing Co.
1870 Birchmount Road
SCARBOROUGH ON M1P 2J7

Phone: (800) 361-6128 ; (416) 293-3621

Fax: (416) 299-2539

Copyright: ISBN:

1997 0205266886

1997 0205267548

Components:

- Learning Mathematics in Elementary and Middle Schools (Book)
- Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters

Est. WCP Price(s):

\$48.40

\$10.00

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Mathematics Assessment: Myths, Models, Good Questions, and - Practical Suggestions

Authorization Status:

Authorized Teaching

Physical Characteristics:

68 pages, softcover

Author(s):

Stenmark, J.K.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533399

Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions

Est. WCP Price(s):

\$12.20

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This 22-minute video focuses on activity-based classrooms in which students from Grade 3 to Grade 6 are seen as collaborative problem solvers and effective communicators. Useful for professional development and communication with parents, the video clearly and effectively addresses how and why mathematics teaching has changed and how parents can help support their children's learning.

Audience: Parents / Teachers / Community

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

One 22-minute videocassette

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Scholastic

Distributor: Addison-Wesley Publishers
26 Prince Andrew Place
P.O. Box 580
DON MILLS ON M3C 2T8

Phone: (800) 387-8028 (416) 447-1779

Fax: (800) 465-0530 (416) 443-0948

Copyright: ISBN:

1994 0201872102

Mathematics: What Are You Teaching My Child?

Est. WCP Price(s):

\$49.40

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Multicultural Math Classroom: Bringing in the World

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

239 pages, softcover

Author(s):

Zaslavsky, C.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓	✓		✓	

Annotation:

This book introduces a multicultural perspective to elementary and middle grade mathematics, revealing how such a perspective can enrich the learning of all students, whatever their gender, ethnic/racial heritage or socio-economic status. Students learn that mathematics was created by real people attempting to solve real problems. The collection of open-ended activities addresses a range of mathematical topics and cultural connections, and promotes problem solving and critical and creative thinking.

Comments:

- This resource offers a balance between theory, research and activities.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Publisher: Heinemann Educational Books

Distributor: Irwin Publishing
1800 Steeles Ave W
CONCORD ON L4K 2P3

Phone: (905) 660-0611

Fax: (905) 660-0676

Copyright: ISBN:

1996 0435083732

The Multicultural Math Classroom: Bringing in
the World

Est. WCP Price(s):

\$36.20

Supplier: LRDC

Phone: (403) 427-5776

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>



The Nelson Canadian School Mathematics Dictionary

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

252 pages, softcover

Author(s):

Fyfield, J.; Blane, D.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Nelson

Distributor: Nelson Canada
1120 Birchmount Road
SCARBOROUGH ON M1K 5G4

Phone: (800) 268-2222

Fax: (800) 430-4445

Copyright: ISBN:

1995 0176048006

The Nelson Canadian School Mathematics Dictionary

Est. WCP Price(s):

\$10.75

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Professional Standards for Teaching Mathematics

Authorization Status:

Authorized Teaching

Physical Characteristics:

196 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: National Council of Teachers of Mathematics

Distributor: National Council of Teachers of Mathematics
1906 Association Drive
RESTON VA 22091
USA

Phone: (703) 620-9840

Fax: (703) 476-2970

Copyright: ISBN:

1991 0873533070

Professional Standards for Teaching Mathematics

Est. WCP Price(s):

\$35.80

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

Annotation:

This dictionary provides a comprehensive list of mathematical terms. Features include cross-referencing, diagrams, pronunciations, word origins, and guidance on usage.

Cautions:

• The conceptual level of the definitions varies widely. This dictionary is most suitable for use as a teacher resource, but may be used with students, as appropriate.

Audience: General / Teachers

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓				✓		✓

Annotation:

This companion document to *Curriculum and Evaluation Standards for School Mathematics* provides a broad framework for guiding reform in school mathematics and suggests ways of implementing the standards for teaching, developing by the National Council of Teachers of Mathematics. This book also provides guidelines for evaluating the teaching of mathematics and suggestions for the professional development of mathematics teachers.

Comments:

• This resource was reviewed at the provincial level only and information related to strand/substrand and mathematical processes is not available.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization



Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 9

*Solutions & Extensions for
Illustrative Examples from the
Western Canadian Protocol*

Authorization Status:

Authorized Teaching

WCP Category:

Teacher Resource

Physical Characteristics:

43 pages, coilbound

Author(s):

Hauk, C.M.; Quinn, B.A.

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Annotation:

This teacher resource provides assistance for teachers in implementing the Protocol framework. Keyed directly to each Illustrative Example (IE), it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the processes (problem-solving, communication, reasoning, connections, estimation and mental mathematics, technology, and visualization) that are associated with the corresponding Specific Outcomes. For added convenience each page of this resource is cross-referenced to the page where the respective Illustrative Example appears in the Protocol framework.

Audience: General

Mathematical Processes:

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand/Substrand:

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: C. Marie Hauk / Bryan A. Quinn

Distributor: Math Alive
315 Dechene Road
EDMONTON AB T6M 1W3

Phone: (403) 487-8841

Fax: (403) 481-9913

Copyright:

1997

Solutions & Extensions for Illustrative Examples
from the Western Canadian Protocol: Grade 9

Est. WCP Price:

\$9

Supplier: LRDC

Phone: (403) 427-5775

Fax: (403) 422-9750

Internet: <http://ednet.edc.gov.ab.ca/lrdc>

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Brainwaves: Using Mathematics Together	1988	4, 5, 6
Connections: Linking Manipulatives to Mathematics: Grade 1	1989	1
Connections: Linking Manipulatives to Mathematics: Grade 2	1989	2
Connections: Linking Manipulatives to Mathematics: Grade 3	1989	3
Connections: Linking Manipulatives to Mathematics: Grade 4	1989	4
Connections: Linking Manipulatives to Mathematics: Grade 5	1989	5
Connections: Linking Manipulatives to Mathematics: Grade 6	1989	6
Cooperative Learning in Mathematics: A Handbook for Teachers	1990	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Disney's Countdown	1988	1
Donald in MathMagicLand		4, 5, 6
Doorbell Rang, The: A Big Book and Teaching Guide	1988	1, 2, 3
Doorbell Rang, The (Student Book, Audiocassette)	1986	1, 2, 3
Easy Street (Apple II Version)	1990	K, 1, 2
Factory, The: Strategies in Problem Solving (Apple II Version)	1992	3, 4, 5, 6
First Steps to Mathematics: A Guide for Parents and Teachers to Beginning Mathematics Activities	1984	1, 2, 3
Fraction Fairy Tales with the Boars! (Apple II Version)	1987	1, 2, 3
Holtmath 2 (Student Text)	1976	8
Holtmath 7: Drill and Applications Masters	1985	7
Holtmath 7: Resource Center	1985	7
Holtmath 7 (Student Book)	1984	7
Holtmath 7: Teacher's Edition	1985	7
Holtmath 8: Drill and Applications Masters	1985	8
Holtmath 8: Resource Centre	1985	8
Holtmath 8 (Student Text)	1984	8
Holtmath 8: Teacher's Edition	1987	8
Holtmath 9: Drill and Applications Masters	1986	9
Holtmath 9: Resource Centre	1987	9
Holtmath 9 (Student Text)	1986	9
Holtmath 9: Teacher's Edition	1986	9
Houghton Mifflin Mathematics 8 (Student Text)	1985	8
Houghton Mifflin Mathematics 8: Teacher's Resource Book	1985	8
How Big is the Moon? Whole Maths in Action	1990	1, 2, 3
Iggy's Gnees (Apple II Version)	1990	1, 2, 3

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
In All Probability: Investigations in Probability and Statistics: Grades 3-6: Teacher's Guide	1993	3, 4, 5, 6
Journeys In Math 7 (Student Text)	1986	7
Journeys In Math 7: Teacher's Resource Manual	1987	7
Journeys In Math 7: Teaching Aids	1987	7
Journeys In Math 8 (Student Text)	1987	8
Journeys In Math 8: Teacher's Resource Manual	1988	8
Journeys In Math 8: Teaching Aids	1988	8
Journeys In Math 9 (Student Text)	1988	9
Journeys In Math 9: Teacher's Resource Manual	1989	9
Journeys In Math 9: Teaching Aids	1989	9
Living and Learning Mathematics: Stories and Strategies for Supporting Mathematical Literacy	1990	K, 1, 2, 3
Math Gems: Sparkling Activities for Early Childhood Classrooms	1989	1, 2
Math Talk	1987	K, 1, 2, 3, 4, 5, 6
Math through Children's Literature: Making the NCTM Standards Come Alive	1993	1, 2, 3
Mathematics in Process	1990	K, 1, 2, 3
Mathematics through Art & Design: 6-13	1988	1, 2, 3, 4, 5, 6
Maths in Context: A Thematic Approach	1990	K, 1, 2, 3
Mathtime 1	1985	1
Mathtime 2	1987	2
Muppet Math: An Introduction to Math All Around Us (Apple II Version)	1990	1, 2
NumberMaze (Macintosh Version)	1992	1, 2, 3, 4, 5, 6
Overhead Math: Manipulative Lessons on the Overhead Projector: Gr. 1-3	1990	1, 2, 3
Pond, The: Strategies in Problem Solving (Apple II Version)	1990	2, 3, 4, 5, 6
Puzzle Tanks (Macintosh Version)	1992	3, 4, 5, 6
Taking Chances (Apple II Version)	1990	3, 4, 5, 6
Winker's World of Patterns (Apple II Version)	1990	K, 1, 2, 3, 4, 5, 6
Zeroing In (Apple II Version)	1990	3, 4, 5, 6
Active Overheads: Grades 4 - 6 <i>Active Learning</i>	1992	3, 4, 5, 6, 7

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Complete Book of Cube-A-Link, The: Activities for Grades 5-8 <i>Active Learning</i>	1989	5, 6, 7, 8
Complete Book of Cube-A-Link, The: Activities for Grades K-4 (2nd Ed.) <i>Active Learning</i>	1991	K, 1, 2, 3, 4
Geoboard Collection, The: An Adventure in Mathematics: Intermediate Level (Grades 7-9) <i>Active Learning</i>	1990	7, 8, 9
Mathematical Problem-Solving for Primary Grades (K-3) <i>Active Learning</i>	1993	1, 2, 3
Pattern Blocks for Primary Activities: Primary Level K - Grade 3 <i>Active Learning</i>	1992	1, 2, 3
Take Shape: Solids - Faces - Lines and Points: A Geometry Resource for Primary Grades <i>Active Learning</i>	1991	K, 1, 2, 3, 4, 5, 6
Teaching Money Using a Hundred Board: Activities for Grades 1 and 2 and Special Needs Students <i>Active Learning</i>	1992	1, 2, 3
Teaching Money Using a Hundred Board and Transition Board <i>Active Learning Series</i>	1992	3, 4, 5, 6
Algebra; Geometry; Measurement; Data Analysis; Numbers and Number Operations <i>Activity Based Mathematics</i>	1988	1, 2, 3, 4, 5, 6
Challenging Mathematics 1: Teaching and Activity Guide <i>Challenging Mathematics</i>	1991	1
Challenging Mathematics 1 (Workbook) <i>Challenging Mathematics</i>	1990	1
Challenging Mathematics 2: Teaching and Activity Guide <i>Challenging Mathematics</i>	1991	2
Challenging Mathematics 2 (Workbook) <i>Challenging Mathematics</i>	1991	2
Challenging Mathematics 3 (Student Text) <i>Challenging Mathematics</i>	1992	3
Challenging Mathematics 3: Teaching and Activity Guide <i>Challenging Mathematics</i>	1992	3
Challenging Mathematics 3: Workbook <i>Challenging Mathematics</i>	1992	3
Challenging Mathematics 4 (Student Text) <i>Challenging Mathematics</i>	1993	4

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Challenging Mathematics 4: Teaching and Activity Guide <i>Challenging Mathematics</i>	1993	4
Explorations 1: Blackline Masters <i>Explorations</i>	1985	1
Explorations 1: Teacher's Resource Book <i>Explorations</i>	1986	1
Explorations 2: Blackline Masters <i>Explorations</i>	1987	2
Explorations 2: Teacher's Resource Book <i>Explorations</i>	1987	2
Explorations for Early Childhood: Line Masters <i>Explorations</i>	1988	1
Explorations for Early Childhood: Teacher's Resource Book <i>Explorations</i>	1988	1
Let's Explore: A Mathematics Activity Book <i>Explorations</i>	1988	2
Ted Is My Friend: A Mathematics Activity Book <i>Explorations</i>	1987	1
Level 1 (K-2): Investigation Book: Data Collection and Representation <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Investigation Book: Measurement <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Investigation Book: Money <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Investigation Book: Number <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Investigation Book: Problems to Solve <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Investigation Book: Space <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Measurement: Activity Cards <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Measurement: Blackline Masters <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Number: Activity Cards <i>Gage Active Mathematics</i>	1992	1, 2

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Level 1 (K-2): Number: Blackline Masters <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Space: Data Collection and Representation: Activity Cards <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Space: Data Collection and Representation: Blackline Masters <i>Gage Active Mathematics</i>	1992	1, 2
Level 1 (K-2): Teacher's Resource Book <i>Gage Active Mathematics</i>	1992	1, 2
Level 1: Lap Book Pack (Includes: Numbers Everywhere!; Measuring; Patterns, Shape and Finding My Way) <i>Gage Active Mathematics</i>	1992	1, 2
Level 1a: Student Profile Book <i>Gage Active Mathematics</i>	1992	1, 2
Level 1b: Student Profile Book <i>Gage Active Mathematics</i>	1992	1, 2
Level 1c: Student Profile Book <i>Gage Active Mathematics</i>	1992	1, 2
Level 2 (3-4): Measurement: Activity Cards <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Measurement: Blackline Masters <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Number: Activity Cards <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Number: Blackline Masters <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Space: Data Collection and Representation: Activity Cards <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Space: Data Collection and Representation: Blackline Masters <i>Gage Active Mathematics</i>	1992	3, 4
Level 2 (3-4): Teacher's Resource Book <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Investigation Book: All About Number <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Investigation Book: Collecting Data <i>Gage Active Mathematics</i>	1992	3, 4

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Level 2: Investigation Book: Dollars and Cents <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Investigation Book: Measuring <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Investigation Book: Problems to Think About <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Investigation Book: Shape, Movement and Location <i>Gage Active Mathematics</i>	1992	3, 4
Level 2: Lap Book Pack (Includes: Find the Shapes and Follow the Directions; Numbers! Numbers!; What Can You Measure?) <i>Gage Active Mathematics</i>	1992	3, 4
Level 2a: Student Profile Book <i>Gage Active Mathematics</i>	1992	3, 4
Level 2b: Student Profile Book <i>Gage Active Mathematics</i>	1992	3, 4
Level 3 (5-6): Measurement: Activity Cards <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Measurement: Blackline Masters <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Number: Activity Cards <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Number: Blackline Masters <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Space: Data Collection and Representation: Activity Cards <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Space: Data Collection and Representation: Blackline Masters <i>Gage Active Mathematics</i>	1994	5, 6
Level 3 (5-6): Teacher's Resource Book <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Book: Measuring Matters <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Book: Money Problems <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Book: Problems and Solutions <i>Gage Active Mathematics</i>	1994	5, 6

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Level 3: Investigation Book: Representing Data <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Book: The Space Around Us <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Book: Working with Numbers <i>Gage Active Mathematics</i>	1994	5, 6
Level 3: Investigation Books (Includes 1 each of: Measuring Matters; Money Problems; Problems and Solutions; Representing Data; The Space Around Us; Working with Numbers) <i>Gage Active Mathematics</i>	1994	5, 6
Level 3a: Student Profile Book <i>Gage Active Mathematics</i>	1994	5, 6
Level 3b: Student Profile Book <i>Gage Active Mathematics</i>	1994	5, 6
Level 3c: Student Profile Book <i>Gage Active Mathematics</i>	1994	5, 6
Interactions 4 (Student Text) <i>Interactions</i>	1993	4
Interactions 4: Teacher's Resource Binder (Includes Blackline Masters) <i>Interactions</i>	1993	4
Interactions 5 (Student Text) <i>Interactions</i>	1994	5
Interactions 5: Teacher's Resource Binder (Includes Blackline Masters) <i>Interactions</i>	1994	5
Interactions 6 (Student Text) <i>Interactions</i>	1994	6
Interactions 6: Teacher's Resource Binder (Includes Blackline Masters) <i>Interactions</i>	1994	6
Mathtales: ECS: Beginnings (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1992	1
Mathtales: ECS: Operations (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1992	1

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Mathtales: Grade One: Measurement & Geometry (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	1
Mathtales: Grade One: Operations (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	1
Mathtales: Grade Three: Measurement and Geometry (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	3
Mathtales: Grade Three: Operations (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	3
Mathtales: Grade Two: Measurement & Geometry (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1992	2
Mathtales: Grade Two: Operations (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1992	2
Practise on Your Own Masters 4 <i>Interactions</i>	1995	4
Practise on Your Own Masters 5 <i>Interactions</i>	1995	5
Practise on Your Own Masters 6 <i>Interactions</i>	1995	6
Read Together Books: Addition (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1988	1
Read Together Books: Division (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	1
Read Together Books: Multiplication (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1993	1
Read Together Books: Subtraction (Audiocassettes, Small Books, Big Book) <i>Interactions</i>	1988	1
Graphs <i>Math Cycle</i>		1, 2, 3
Fun and Games <i>Mathematical Eye IV</i>	1992	5, 6

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Number Patterns 3: Fibonacci and Others <i>Mathematical Eye Series III</i>	1991	4, 5, 6
Paper Engineering <i>Mathematical Eye Series IV</i>	1992	5, 6
MathQuest 1 (Student's Edition) <i>MathQuest</i>	1986	1
MathQuest 2 (Student's Edition) <i>MathQuest</i>	1986	2
MathQuest 3 (Student's Edition) <i>MathQuest</i>	1986	3
MathQuest 4 (Student's Edition) <i>MathQuest</i>	1986	4
MathQuest 5 (Student's Edition) <i>MathQuest</i>	1987	5
MathQuest 6 (Student's Edition) <i>MathQuest</i>	1987	6
MathQuest Five: File Folder Games <i>MathQuest</i>	1990	5
MathQuest Five: Program Manual <i>MathQuest</i>	1988	5
MathQuest Five: Teacher's Resource Book <i>MathQuest</i>	1988	5
MathQuest Four: File Folder Games <i>MathQuest</i>	1989	4
MathQuest Four: Program Manual <i>MathQuest</i>	1988	4
MathQuest Four: Teacher's Resource Book <i>MathQuest</i>	1988	4
MathQuest One: Evaluation Book <i>MathQuest</i>	1988	1
MathQuest One: File Folder Games <i>MathQuest</i>	1989	1
MathQuest One: Program Manual <i>MathQuest</i>	1986	1
MathQuest Six: File Folder Games <i>MathQuest</i>	1990	6
MathQuest Six: Program Manual <i>MathQuest</i>	1988	6

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
MathQuest Six: Teacher's Resource Book <i>MathQuest</i>	1988	6
MathQuest Three: File Folder Games <i>MathQuest</i>		3
MathQuest Three: Program Manual <i>MathQuest</i>	1987	3
MathQuest Three: Teacher's Resource Book <i>MathQuest</i>	1988	3
MathQuest Two: Evaluation Book <i>MathQuest</i>	1988	2
MathQuest Two: File Folder Games <i>MathQuest</i>	1990	2
MathQuest Two: Program Manual <i>MathQuest</i>	1986	2
For Good Measure <i>Mathsphere</i>	1991	5, 6
MathWorks: Book B: Blackline Masters <i>MathWorks</i>	1992	2
MathWorks: Book B: Gameboards (Hundred Chart; Peaks and Pitfalls; Trade Winds; Get in Shape) <i>MathWorks</i>	1992	2
MathWorks: Book B (Teacher Resource Book) <i>MathWorks</i>	1992	2
Collectors' Clubhouse Module <i>MathWorlds</i>	1994	4
Detective Agency Module <i>Mathworlds</i>	1993	5
Factory Module <i>MathWorlds</i>	1994	4
Fire Hall Module <i>MathWorlds</i>	1993	4
Mathworlds: Program Kit <i>MathWorlds</i>	1993	4
Space Trek Module <i>MathWorlds</i>	1994	5
Trading Post Module <i>MathWorlds</i>	1994	4

AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Underwater World Module <i>MathWorlds</i>	1993	4
Management of Math Activities <i>SAIL through Mathematics</i>	1993	1, 2
Math Learning Activities 3A: Quadrilaterals, Factors, Odd/Even, Geometry and Decimals <i>SAIL through Mathematics</i>	1993	1, 2
Math Learning Activities 3B: Addition Stories and Sentences, Number Line Extrapolation <i>SAIL through Mathematics</i>	1993	1, 2
Mathematics in the Primary School <i>Sail Through Mathematics</i>	1989	1, 2, 3, 4, 5, 6
SAIL through Mathematics: Structured Activities for Intelligent Learning: Activity Cards (Grade 1) <i>SAIL through Mathematics</i>	1993	1
SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1 <i>SAIL through Mathematics</i>	1993	1, 2
SAIL through Mathematics: Structured Activities for Intelligent Learning: Volume 1A: Blackline Masters <i>SAIL through Mathematics</i>	1993	1, 2
SAIL through Mathematics: Structured Activities for Intelligent Learning: Activity Cards (Grade 2) <i>SAIL through Mathematics</i>	1993	2
SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2 (Expanded North American Ed.) <i>SAIL Through Mathematics</i>	1994	3, 4, 5, 6
SAIL Through Mathematics: Structured Activities for Intelligent Learning: Volume 2a: Photomasters (Expanded North American Ed.) <i>SAIL Through Mathematics</i>	1994	3, 4, 5, 6
Interlocking Cube Portfolio, The: Grades 4-6 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	4, 5, 6
Pattern Block Portfolio, The: Grades 4-6 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	4, 5, 6
Primary Base Ten Portfolio, The: Grades 1-4 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	1, 2, 3, 4
Primary Geoboard Portfolio, The: Grades 1-3 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	1, 2, 3


AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Primary Interlocking Cube Portfolio, The: Grades 1-3 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	1, 2, 3
Primary Pattern Block Portfolio, The: Grades 1-3 <i>Spectrum Manipulative Mathematics Series, The</i>	1994	1, 2, 3
Infinity <i>Video Maths</i>		4, 5, 6
Size <i>Video Maths</i>		3, 4, 5, 6
Windows on Mathematics: Worktime Activities for Young Children: Matching <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Shapes <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Counting and Numbers <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Comparing <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Classifying and Graphing <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Patterns <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Reading and Writing Numerals <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 0-9 <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Number Concepts, 10-99 <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Adding and Subtracting <i>Windows on Mathematics</i>	1987	K, 1, 2


AUTHORIZED RESOURCES UNDER REVIEW

TITLE/SERIES	COPYRIGHT DATE	GRADES(S)
Windows on Mathematics: Worktime Activities for Young Children: Measuring <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Money and Time <i>Windows on Mathematics</i>	1987	K, 1, 2
Windows on Mathematics: Worktime Activities for Young Children: Management Guide <i>Windows on Mathematics</i>	1987	K, 1, 2

TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
About Teaching Mathematics: A K-8 Resource	1992	K, 1, 2, 3, 4, 5, 6, 7, 8
Adventures in Flight (Macintosh School Version)	1995	5
Adventures in Flight (PC School Version)	1995	
<i>Addison-Wesley's Real World Math</i>		
Alge-Tiles: Grades 7-11 (Ages 12-16+)		7, 8, 9
<i>Active Learning</i>		
Architek (English Version)	1993	K, 1, 2, 3
Be SMART: Sorting, Matching, Arranging, Recognizing, Thinking Skills: Manipulative Activity Resource: For Levels 1 to 3	1990	1, 2, 3
<i>Thinking in Action</i>		
 Beyond Facts & Flashcards: Exploring Math with Your Kids	1996	K, 1, 2, 3, 4, 5, 6
Collection of Math Lessons, A: From Grades 1 through 3	1988	1, 2, 3
<i>A Collection of Math Lessons</i>		
Constructing Ideas About Counting: Grades 1-3	1995	K, 1, 2, 3
Constructing Ideas About Number Combinations: Grades 1-3	1995	
Constructing Ideas About Patterns: Grades 1-3	1995	
<i>Constructing Ideas: Grades 1-3</i>		
Constructing Ideas About Large Numbers: Grades 3-6	1995	3, 4, 5, 6
Constructing Ideas About Multiplication and Division: Grades 3-6	1995	
Constructing Ideas About Fractions: Grades 3-6	1995	
<i>Constructing Ideas: Grades 3-6</i>		
Constructing Ideas About Fractions, Decimals & Percents: Grades 6-8	1995	6, 7, 8
Constructing Ideas About Geometry: Grades 6-8	1995	
Constructing Ideas About Data Analysis: Grades 6-8	1995	
<i>Constructing Ideas: Grades 6-8</i>		
Cooperative Problem Solving with Base Ten Blocks	1991	3, 4, 5
Cooperative Problem Solving with Calculators	1991	
Cooperative Problem Solving with Pattern Blocks	1991	
Cooperative Problem Solving with Tangrams	1991	
Cooperative Problem Solving with Attribute Blocks	1991	
<i>Cooperative Problem Solving</i>		
Curriculum and Evaluation Standards for School Mathematics	1989	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Curriculum and Evaluation Standards for School Mathematics: Kindergarten Book	1991	K, 1
<i>Addenda Series, Grades K-6</i>		








TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Curriculum and Evaluation Standards for School Mathematics: First Grade Book <i>Addenda Series, Grades K-6</i>	1991	1
Curriculum and Evaluation Standards for School Mathematics: Second Grade Book <i>Addenda Series, Grades K-6</i>	1992	2
Curriculum and Evaluation Standards for School Mathematics: Third Grade Book <i>Addenda Series, Grades K-6</i>	1992	3
Curriculum and Evaluation Standards for School Mathematics: Fourth Grade Book <i>Addenda Series, Grades K-6</i>	1992	4
Curriculum and Evaluation Standards for School Mathematics: Fifth Grade Book <i>Addenda Series, Grades K-6</i>	1992	5
Curriculum and Evaluation Standards for School Mathematics: Sixth Grade Book <i>Addenda Series, Grades K-6</i>	1992	6
Dealing with Data and Chance	1991	5, 6, 7, 8
Dealing with Data: Probability and Sampling <i>Constructing Mathematical Concepts</i>	1996	7
Developing Number Concepts Using Unifix® Cubes	1984	K, 1, 2, 3
Developing Number Sense in the Middle Grades	1991	5, 6, 7, 8
Diagnostic Mathematics Program, Division 1 (includes Operations; Numeration; Geometry; Problem Solving; Measurement) <i>Diagnostic Mathematics Program</i>	1990	1, 2, 3
Diagnostic Mathematics Program, Division 1 (includes Operations; Numeration; Geometry; Problem Solving; Measurement) <i>Diagnostic Mathematics Program</i>	1990	4, 5, 6
Division: Grades 3-4 <i>Math By All Means</i>	1995	3, 4
 Figures, Facts & Fables: Telling Tales in Science and Math	1996	K, 1, 2, 3, 4, 5, 6, 7, 8, 9
Fraction Blocks: Grades 5-8 (Ages 11-14) <i>Active Learning</i>	1995	5, 6, 7, 8















TITLE LISTING

	TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
	Geoboard Portfolio, The (Grades 4-6) <i>Spectrum Manipulative Mathematics</i>	1994	5, 6, 7
	Geometer's Sketchpad, The (Macintosh Version 3.0)	1995	8, 9
	Geometer's Sketchpad, The (Windows Version 3.03) <i>Geometer's Sketchpad</i>	1995	
NEW	Geometry Blaster (Macintosh / Windows Version)	1996	7, 8, 9
	Geometry: Grade 2 <i>Math By All Means</i>	1994	2
	Geometry in the Middle Grades	1992	5, 6, 7, 8
	Alternative Assessment in the Mathematics Classroom	1993	7, 8, 9
	Cooperative Learning in the Mathematics Classroom	1993	
	Involving Parents and the Community in the Mathematics Classroom <i>Glencoe Mathematics Professional</i>	1993	
NEW	Graph Club, The (Macintosh Version 1.14) (Single User)	1995	K, 1, 2, 3
NEW	Graph Club, The (Windows Version 1.2) (Single User) <i>The Graph Club</i>	1996	
NEW	Hot Dog Stand: The Works (Macintosh)	1996	4, 5, 6, 7, 8, 9
NEW	Hot Dog Stand: The Works (Windows) <i>Hot Dog Stand: The Works</i>	1996	
NEW	How To's in Getting Started with Assessment & Evaluation Using Portfolios (Across the Curriculum): Grades 1-10 <i>Active Learning</i>	1995	1, 2, 3, 4, 5, 6, 7, 8, 9
	Interactions: Kindergarten: Teacher's Resource Binder (includes Blackline Masters)	1994	K
	Interactions: Kindergarten: Math Literature Pack <i>Interactions (Level K)</i>	1994	
	Interactions 1: Teacher's Resource Binder (includes Blackline Masters)	1995	1
	Interactions 1: Practise on Your Own Masters	1993	
	Interactions 1: Activity Cards		
	Interactions 1: See What I Can Do Booklets (8 titles) <i>Interactions (Level 1)</i>	1994	


















TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Interactions 2: Teacher's Resource Binder (includes Blackline Masters)	1994	2
Interactions 2: Practise on Your Own Masters	1995	
Interactions 2: Activity Cards		
Interactions 2: See What I Can Do Booklets (8 titles)		
Interactions 2: Math Literature Pack		
<i>Interactions (Level 2)</i>		
Interactions 3 (Student Textbook)	1993	3
Interactions 3: Teacher's Resource Binder (includes Blackline Masters)	1995	
Interactions 3: Practise on Your Own Masters	1994	
<i>Interactions (Level 3)</i>		
 Interactions (Level 4) (Student Textbook)	1997	4
 Interactions (Level 4): Teacher's Resource Book	1997	
<i>Interactions (Level 4)</i>		
 Interactions (Level 5) (Student Textbook)	1997	5
 Interactions (Level 5): Teacher's Resource Book	1997	
<i>Interactions (Level 5)</i>		
 Interactions (Level 6) (Student Textbook)	1997	6
 Interactions (Level 6): Teacher's Resource Book	1997	
<i>Interactions (Level 6)</i>		
Interactions 7 (Student Textbook)	1996	7
Interactions 7: Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)	1996	
<i>Interactions (Level 7)</i>		
Interactions 8 (Student Textbook)	1996	8
Interactions 8: Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)	1996	
<i>Interactions (Level 8)</i>		
Interactions 9 (Student Textbook)	1996	9
Interactions 9: Teacher Resource Package (Includes Teacher's Resource Book; Professional Assessment Handbook and Teacher's Resource Blackline Masters)	1996	
<i>Interactions (Level 9)</i>		
 Intermediate Geoboard, The	1996	7, 8, 9
<i>Active Learning: Grades 7-9</i>		

TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Intermediate Probability Jobcards	1991	4, 5, 6
Junior High Probability Jobcards	1991	7, 8
 Just for Grade One <i>Just for Series</i>	1996	1
 Just for Grade Two <i>Just for Series</i>	1996	2
 Just for Grade Five <i>Just for Series</i>	1996	5
 Just for Grade Six <i>Just for Series</i>	1996	6
 Just for Pattern Blocks (Primary)	1996	K, 1
 Just for Teddy Bear Counters (Primary) <i>Just for Series (Primary)</i>	1996	
 Just for Base Ten Blocks (Intermediate)	1996	4, 5, 6, 7
 Just for Fraction Circles (Intermediate)	1996	
 Just for Geoboards (Intermediate)	1996	
 Just for Pattern Blocks (Intermediate)	1996	
 Just for Rainbow Cubes (Intermediate)	1996	
 Just for Tangrams (Intermediate) <i>Just for Series (Intermediate)</i>	1996	
Kids 'n' Calculators: How to Use the Calculator as a Teaching Tool: Grades K-6 (Ages 5-11) <i>Active Learning</i>	1993	1, 2, 3, 4, 5, 6
 Learning Mathematics in Elementary and Middle Schools (Book)	1997	K, 1, 2, 3, 4, 5, 6, 7, 8, 9
 Learning Mathematics in Elementary and Middle Schools: Instructor's Manual with Transparency Masters <i>Learning Mathematics in Elementary and Middle Schools</i>	1997	
'Oh No, Maths!' Developing Confidence in Mathematics	1991	K, 1, 2, 3
Mathematics: How to Assess and Report	1993	
<i>M-3 Mathematics: Mapping Mathematical Meaning</i>		





TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Math and Literature (K-3) Book One	1992	K, 1, 2, 3
Math and Literature (K-3) Book Two	1995	
<i>Math and Literature</i>		
 Math Assessment: Grade 7: Teacher's Resource Book	1997	7
 Math Assessment: Grade 7: Student's Booklet	1997	
<i>Math Assessment: Grade 7</i>		
 Math Assessment: Grade 8: Teacher's Resource Book	1997	8
 Math Assessment: Grade 8: Student's Booklet	1997	
<i>Math Assessment: Grade 8</i>		
 Math Discoveries with Geoboards: Grades K-1	1994	K, 1
 Math Discoveries with Pattern Blocks: Grades K-1	1994	
 Math Discoveries with Tangrams: Grades K-1	1994	
<i>Math Discoveries: Grades K-1</i>		
 Math Discoveries with Attribute Blocks: Grades 1-3	1995	1, 2, 3
 Math Discoveries with Base Ten Blocks: Grades 1-3	1994	
 Math Discoveries with Pentominoes: Grades 1-3	1995	
<i>Math Discoveries: Grades 1-3</i>		
 Math Discoveries with Geoboards: Grades 2-3	1994	2, 3
 Math Discoveries with Pattern Blocks: Grades 2-3	1994	
 Math Discoveries with Tangrams: Grades 2-3	1994	
<i>Math Discoveries: Grades 2-3</i>		
 Math Discoveries about Data & Chance with Manipulatives: Grades 3-4	1996	3, 4
 Math Discoveries about Geometry with Manipulatives: Grades 3-4	1996	
 Math Discoveries about Numbers & Operations with Manipulatives: Grades 3-4	1996	
 Math Discoveries about Patterns with Manipulatives: Grades 3-4	1996	
<i>Math Discoveries: Grades 3-4</i>		

TITLE LISTING

	TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
NEW	Math Discoveries about Data & Probability with Manipulatives: Grades 5-6	1996	5, 6
NEW	Math Discoveries about Fractions & Decimals with Manipulatives: Grades 5-6	1996	
NEW	Math Discoveries about Geometry with Manipulatives: Grades 5-6	1996	
NEW	Math Discoveries about Numbers & Operations with Manipulatives: Grades 5-6	1996	
NEW	Math Discoveries about Patterns & Functions with Manipulatives: Grades 5-6	1996	
	<i>Math Discoveries: Grades 5-6</i>		
	Math Excursions K: Project-Based Mathematics for Kindergartners (Revised Ed.)	1993	K
	<i>Math Excursions</i>		
	Math Excursions 1: Project-Based Mathematics for First Graders	1992	1
	<i>Math Excursions</i>		
NEW	Math Tools (Windows Version 1.5)	1997	4, 5, 6, 7, 8, 9
	<i>Math Tools</i>		
NEW	Mathematics 7: Learning Facilitator's Manual	1996	7
NEW	Mathematics 7: Module 1: Number Theory	1996	
NEW	Mathematics 7: Module 2: Fractions and Decimal Numbers	1996	
NEW	Mathematics 7: Module 3: Ratio and Proportion	1996	
NEW	Mathematics 7: Module 4: Patterns and Relations	1996	
NEW	Mathematics 7: Module 5: Integers	1996	
NEW	Mathematics 7: Module 6: Shape and Space	1996	
NEW	Mathematics 7: Module 7: Statistics and Probability	1996	
NEW	Mathematics 7: Assignment Booklets: Modules 1-7	1996	
NEW	Mathematics 7: Videotape 1: <i>Math Moves</i> : Number Theory; <i>Math Moves</i> : Adding and Subtracting Fractions; <i>Math Moves</i> : Integers		
NEW	Mathematics 7: Videotape 2: <i>Mathmoves</i> : Equations: Solving with One Step; Why We Have Time Zones; <i>Math Ways</i> : Per Cent; <i>Math Vantage</i> : Tessellations		
	<i>Mathematics 7 (Distance Learning Package)</i>		
	Mathematics: Assessing Understanding: Parts 1-3	1992	1, 2, 3, 4, 5, 6
	Mathematics Assessment: Myths, Models, Good Questions, and Practical Suggestions	1991	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
NEW	Mathematics in the Making: Authoring Ideas in Primary Classrooms	1996	K, 1, 2, 3

TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Mathematics: Teaching for Understanding: Grades K-6: Parts 1-3	1992	1, 2, 3, 4, 5, 6
Mathematics: What Are You Teaching My Child?	1994	K, 1, 2, 3, 4, 5, 6, 7, 8, 9
MATHPOWER Seven (Student Book)	1996	7
MATHPOWER Seven: Blackline Masters	1996	
 MATHPOWER Seven: Teacher's Edition	1996	
<i>MATHPOWER (Western Ed.) (Grade 7)</i>		
MATHPOWER Eight (Student Book)	1996	8
MATHPOWER Eight: Blackline Masters	1996	
 MATHPOWER Eight: Teacher's Edition	1996	
<i>MATHPOWER (Western Ed.) (Grade 8)</i>		
MATHPOWER Nine (Student Book)	1996	9
MATHPOWER Nine: Blackline Masters	1996	
MATHPOWER Nine: Teacher's Edition	1996	
<i>MATHPOWER (Western Ed.) (Grade 9)</i>		
 Mathville Mindway: Math Problem Solving: Ages 8-12 (Macintosh / Windows Version 1.0)	1996	3, 4, 5
<i>Mathville</i>		
 Mathville VIP (Macintosh / Windows Version 1.0)	1996	6, 7, 8
<i>Mathville</i>		
Mathworks: Book A (Teacher Resource Book)	1992	1
Mathworks: Book A: Blackline Masters	1992	
Mathworks: Book A: Gameboards		
<i>Mathworks</i>		
Measure It! Grades K to 3 (Ages 5-8)	1991	K, 1, 2, 3
<i>Active Learning</i>		
Measure It: Grades 4-6 (Ages 9-11)	1992	4, 5, 6
<i>Active Learning</i>		
Mental Math in the Primary Grades: Blackline Masters	1988	2, 3
Mental Math in the Middle Grades: Blackline Masters	1987	4, 5, 6
Mental Math in Junior High: Blackline Masters	1988	7, 8






TITLE LISTING

	TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
	Minds on Math 7 (Revised Ed.) (Student Book)	1996	7
NEW	Minds on Math 7: Teacher's Resource Binder	1997	
NEW	Minds on Math 7: Template and Data Disk Package: Teacher's Guide		
NEW	Minds on Math 7: Activity Cards	1997	
	<i>Minds on Math (Level 7)</i>		
	Minds on Math 8 (Revised Ed.) (Student Book)	1996	8
NEW	Minds on Math 8: Teacher's Resource Book	1997	
NEW	Minds on Math 8: Template and Data Disk Package: Teacher's Guide	1997	
NEW	Minds on Math 8: Activity Cards	1997	
	<i>Minds on Math (Level 8)</i>		
	Minds on Math 9 (Revised Ed.) (Student Book)	1996	9
NEW	Minds on Math 9: Teacher's Resource Book	1997	
NEW	Minds on Math 9: Template and Data Disk Package: Teacher's Guide	1997	
NEW	Minds on Math 9: Activity Cards with Answer Key	1997	
	<i>Minds on Math (Level 9)</i>		
NEW	Mosaic Magic: A Toy, Creativity Tool, and Math Teacher All in One (Macintosh Version)	1997	1, 2, 3, 4, 5, 6
NEW	Multicultural Math Classroom, The: Bringing in the World	1996	K, 1, 2, 3, 4, 5, 6, 7, 8, 9
	Multiplication: Grade 3 <i>Math By All Means</i>	1991	3
	Nelson Canadian School Mathematics Dictionary, The	1995	7, 8, 9
	Numbers and Patterns: Investigating Rate, Ratio, and Proportion	1995	7
	Numbers and Patterns: Investigating Rate, Ratio, and Proportion: Teacher's Guide <i>Constructing Mathematical Concepts</i>	1995	
	101 Winning Ways with Base 10: Activities for Grades 1-3 (Ages 6-8) <i>Active Learning</i>	1989	1, 2, 3
	101 Winning Ways with Base 10: Activities for Grades 4-6 (Ages 9-11) <i>Active Learning</i>	1989	4, 5, 6
	Patterns and Functions	1991	5, 6, 7, 8

















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TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Place Value: Grades 1-2 <i>Math By All Means</i>	1994	1, 2
Pre-Algebra Math Blaster Mystery: The Great Brain Robbery: Teacher's Edition (Windows Version)	1994	7
Probability: Grades 3-4 <i>Math By All Means</i>	1995	3, 4
Problem Solver 1, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	1
Problem Solver 2, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	2
Problem Solver 3, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	3
Problem Solver 4, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	4
Problem Solver 5, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	5
Problem Solver 6, The: Activities for Learning Problem-Solving Strategies <i>The Problem Solver: Activities for Learning Problem-Solving Strategies</i>	1987	6
Problem Solving: What You Do When You Don't Know What To Do (Grade 4-9) <i>Active Learning</i>	1991	4, 5, 6, 7, 8, 9
Professional Standards for Teaching Mathematics	1991	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Puddle Questions: Assessing Mathematical Thinking: Grade 1 <i>Puddle Questions</i>	1994	1
Puddle Questions: Assessing Mathematical Thinking: Grade 2 <i>Puddle Questions</i>	1994	2
Puddle Questions: Assessing Mathematical Thinking: Grade 3 <i>Puddle Questions</i>	1994	3
Puddle Questions: Assessing Mathematical Thinking: Grade 4 <i>Puddle Questions</i>	1994	4















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Puddle Questions: Assessing Mathematical Thinking: Grade 5 <i>Puddle Questions</i>	1994	5
Puzzling World of Tangrams and Pentominoes, The: Grades 3-9 (Ages 8-14) <i>Active Learning</i>	1994	2, 3, 4, 5, 6
Quest 2000: Exploring Mathematics (Level K): Teacher's Guide and Journal	1995	K
Quest 2000: Exploring Mathematics (Level K): Math Workouts: 5-Minute Experiences for Staying Fit in Math	1995	
Quest 2000: Exploring Mathematics (Level K): Poster Package: Grade K	1995	
Quest 2000: Exploring Mathematics (Level K): Assessment Masters: Grade K	1995	
Quest 2000: Exploring Mathematics (Level K): Activity Masters: Grade K	1995	
Quest 2000: Exploring Mathematics (Level K): Family Masters: Grade K	1995	
Quest 2000: Exploring Mathematics (Level K): Problem of the Week: Transparencies and Answer Key: Grade K	1995	
Quest 2000: Exploring Mathematics (Level K): Review and Practice Book: On Your Own (Student Edition; Teacher's Edition with Answers)	1995	
Quest 2000: Exploring Mathematics (Level K): Class Journal	1995	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics (Level K)</i>		
Quest 2000: Exploring Mathematics (Grade 1) (Revised Ed.) (Student Book)	1995	1
Quest 2000: Exploring Mathematics: Teacher's Guide and Journal (Revised Ed.)	1995	
 Quest 2000: Exploring Mathematics: Grade 1: Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 1: Teacher Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 1: Problem of the Week	1997	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics (Grade 1)</i>		

TITLE LISTING

TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
Quest 2000: Exploring Mathematics (Grade 2) (Revised Ed.) (Student Book)	1996	2
Quest 2000: Exploring Mathematics: Teacher's Guide and Journal (Revised Edition)	1996	
 Quest 2000: Exploring Mathematics: Grade 2: Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 2: Teacher's Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 2: Problem of the Week	1997	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics (Grade 2)</i>		
Quest 2000: Exploring Mathematics (Grade 3) (Revised Edition) (Student Book)	1996	3
Quest 2000: Exploring Mathematics (Grade 3): Teacher's Guide and Journal	1996	
 Quest 2000: Exploring Mathematics: Grade 3: Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 3: Teacher Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 3: Technology Package	1997	
 Quest 2000: Exploring Mathematics: Grade 3: Problem of the Week	1997	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics (Grade 3)</i>		
 Quest 2000: Exploring Mathematics: Grade 4: Student Book	1996	4
 Quest 2000: Exploring Mathematics: Grade 4: Teacher's Guide & Journal; Solutions Manual	1997	
 Quest 2000: Exploring Mathematics: Grade 4: Extra Practice & Testing Masters (Student's Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 4: Teacher Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 4: Technology Package	1997	
 Quest 2000: Exploring Mathematics: Grade 4: Problem of the Week	1996	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics: Grade 4</i>		










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 Quest 2000: Exploring Mathematics: Grade 5: Student Book	1997	5
 Quest 2000: Exploring Mathematics: Grade 5: Teacher's Guide & Journal; Solutions Manual	1997	
 Quest 2000: Exploring Mathematics: Grade 5: Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 5: Teacher Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 5: Technology Package	1997	
 Quest 2000: Exploring Mathematics: Grade 5: Problem of the Week	1997	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics: Grade 5</i>		
 Quest 2000: Exploring Mathematics: Grade 6: Student Book	1997	6
 Quest 2000: Exploring Mathematics: Grade 6: Teacher's Guide & Journal; Solutions Manual	1997	
 Quest 2000: Exploring Mathematics: Grade 6: Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	1997	
 Quest 2000: Exploring Mathematics: Grade 6: Teacher Support Package	1997	
 Quest 2000: Exploring Mathematics: Grade 6: Technology Package	1997	
 Quest 2000: Exploring Mathematics: Grade 6: Problem of the Week	1997	
 Quest 2000: Exploring Mathematics: Professional Handbook (Revised Ed.)	1997	
<i>Quest 2000: Exploring Mathematics: Grade 6</i>		
Reusable Classroom Graphing Kit	1993	K
Show & Tell GeoBoard Collection, The: Grades 2-4 (Ages 7-9) <i>Active Learning</i>	1992	1, 2, 3, 4

















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	TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
NEW	Smart Arithmetic: A Thinking Approach to Computation (Grades 1-3)	1996	1, 2, 3, 4, 5, 6
NEW	Smart Arithmetic: A Thinking Approach to Computation (Grades 4-6)	1996	
NEW	Smart Arithmetic: A Thinking Approach to Computation: Game Mats (Grades 1-3)	1996	
NEW	Smart Arithmetic: A Thinking Approach to Computation: Game Mats (Grades 4-6)	1996	
NEW	Smart Arithmetic: A Thinking Approach to Computation: Dice & Card Games (Grades 1-3)	1996	
NEW	Smart Arithmetic: A Thinking Approach to Computation: Dice & Card Games (Grades 4-6)	1996	
NEW	Smart Arithmetic: A Thinking Approach to Computation: Videocassette, Guide	1996	
	<i>Smart Arithmetic: A Thinking Approach to Computation</i>		
NEW	Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 7	1997	7
	<i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i>		
NEW	Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 8	1997	8
	<i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i>		
NEW	Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 9	1997	9
	<i>Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol</i>		
NEW	Geometry and Measurement: Measuring Volume	1987	5
NEW	Problem Solving: Guess - Check - Revise	1987	
NEW	Mental Computation: Using Mental Computation for Multiplication	1987	
NEW	Problem Solving: Drawing and Interpreting Tables and Diagrams	1987	
NEW	Measurement: Precision and Estimation	1987	
NEW	Problem Solving: Solving a Simpler Problem	1987	
NEW	Estimation: Reasonableness of Answers	1987	
NEW	Estimation: Estimation Strategies for Multiplication	1987	
NEW	Solve It: A Teacher's Guide	1987	
	<i>Solve It</i>		


TITLE LISTING

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	Statistics: Sampling	1987	6
	Solve It: A Teacher's Guide <i>Solve It</i>	1987	
	Statistics Workshop (Macintosh Version)	1991	7, 8, 9
	Soar with Integers: A Complete Teaching & Learning Resource (Grades 7-9, Ages 12-15)	1995	7
	Integer Manipulative Kit <i>Step Up</i>	1995	
	Teaching and Learning with Computers: Mathematics Teacher Guide: First Grade (3rd Ed.) <i>Teaching and Learning with Computers</i>	1994	1
	Teaching and Learning with Computers: Mathematics Teacher Guide: Second Grade (3rd Ed.) <i>Teaching and Learning with Computers</i>		2
	Teaching and Learning with Computers: Mathematics Teacher Guide: Third Grade <i>Teaching and Learning with Computers</i>	1994	3
	Telling Time with Count Clock	1983	1, 2, 3
	Tesselmania (Macintosh Version)	1995	5, 6
	Tesselmania (Windows Version) <i>Tesselmania</i>	1995	
	There's Math in Deviled Eggs (Video and Guide)	1993	K, 1, 2, 3, 4, 5, 6, 7
	Tick Tock: All About the Clock	1992	K, 1, 2, 3
	Triple 'A' Mathematics Program: Data Management & Probability <i>Active Learning: Grades 7-9</i>	1995	7, 8, 9
	20 Thinking Questions for Pattern Blocks: Grades 1-3 <i>20 Thinking Questions</i>	1995	1, 2, 3
	20 Thinking Questions for Base Ten Blocks: Grades 2-3 <i>20 Thinking Questions</i>	1995	2, 3
	200 Things to Do with Logic Blocks: Grades K-8 (Ages 5-13) <i>Active Learning</i>	1991	2, 3, 4

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TITLE / SERIES	COPYRIGHT DATE	GRADE(S)
 Understanding Fractions (Macintosh Version 4.0)	1996	7, 8, 9
 Understanding Fractions (Windows Version 4.0)	1996	
 Understanding Integers (Macintosh Version 3.0)	1996	
 Understanding Integers (Windows Version 3.0)	1996	
 Understanding Exponents (Macintosh Version 3.0)	1996	
 Understanding Exponents (Windows Version 3.0)	1996	
 Understanding Algebra (Macintosh Version 2.0)	1996	
 Understanding Algebra (Windows Version 2.0)	1996	
 Understanding Equations (Macintosh Version 2.0)	1996	
 Understanding Equations (Windows Version 2.0)	1996	
 Understanding Geometry (Macintosh Version 2.0)	1996	
 Understanding Geometry (Windows Version 2.0)	1996	
 Understanding Percent (Macintosh Version 1.0)	1996	
 Understanding Percent (Windows Version 1.0)	1996	
<i>Understanding Math Series</i>		
 What Time Is It? (2nd Ed.)	1972	1, 2, 3
 World's Most Popular Puzzles and Problems, The	1996	5, 6, 7, 8
<i>Active Learning: Grades 5 - 9</i>		
Writing Mathematics: Grade 1 <i>Writing Mathematics</i>	1995	1
Writing Mathematics: Grade 2 <i>Writing Mathematics</i>	1995	2
Writing Mathematics: Grade 3 <i>Writing Mathematics</i>	1995	3
Writing Mathematics: Grade 4 <i>Writing Mathematics</i>	1995	4
Writing Mathematics: Grade 5 <i>Writing Mathematics</i>	1995	5

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